Color Television

32PT41B1

Instructions for use

This television contains;

Link

Let's make things better.

PHILIPS

3135 015 17541

Return your Warranty Registration card today to ensure you receive all the benefits you're entitled to.

Once your PHILIPS purchase is registered, you're eligible to receive all the privileges of owning a PHILIPS product. So complete and return the Warranty Registration Card enclosed with your purchase at once. And take advantage of these important benefits.

Warranty Verification

Registering your product within 10 days confirms your right to maximum protection under the terms and conditions of your PHILIPS warranty.

Owner Confirmation

Your completed Warranty Registration Card serves as verification of ownership in the event of product theft or loss.

Model Registration

Returning your Warranty Registration Card right away guarantees you'll receive all the information and special offers which you qualify for as the owner of your model.

Congratulations on your **purchase,**
and welcome to the **"family!"**

PHILIPS

Dear PHILIPS product owner:

Thank you for your confidence in PHILIPS. You've selected one of the best-built, best-backed products available today. And we'll do everything in our power to keep you happy with your purchase for many years to come.

As a member of the PHILIPS "family," you're entitled to protection by one of the most comprehensive warranties and outstanding service networks in the industry.

What's more, your purchase guarantees you'll receive all the information and special offers for which you qualify, plus easy access to accessories from our convenient home shopping network.

And most importantly you can count on our uncompromising commitment to your total satisfaction.

All of this is our way of saying welcome–and thanks for investing in a PHILIPS product.

Sincerely,

Robert Minkhorst
President and Chief Executive Officer

P.S. Remember, to get the most from your PHILIPS product, you must return your Warranty Registration Card within 10 days. So please mail it to us right now!

Know these **safety** *symbols*

⚡ This "bolt of lightning" indicates uninsulated material within your unit may cause an electrical shock. For the safety of everyone in your household, please do not remove product covering.

⚠ The "exclamation point" calls attention to features for which you should read the enclosed literature closely to prevent operating and maintenance problems.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, and fully insert.

ATTENTION: Pour éviter les chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

SAFETY INSTRUCTIONS - Read before operating equipment

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. **Read Instructions** - All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** - The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** - All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** - All operating and use instructions should be followed.
5. **Water and Moisture** - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.
6. **Carts and Stands** - The appliance should be used only with a cart or stand that is recommended by the manufacturer.

6A.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

6B. Tilt/Stability - All televisions must comply with recommended international global safety standards for tilt and stability properties of its cabinet design.

- Do not compromise these design standards by applying excessive pull force to the front, or top, of the cabinet which could ultimately overturn the product.
- Also, do not endanger yourself, or children, by placing electronic equipment/toys on the top of the cabinet. Such items could unsuspectingly fall from the top of the set and cause product damage and/or personal injury.

7. **Wall or Ceiling Mounting** - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. **Ventilation** - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. **Heat** - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. **Power Sources** - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. **Power-Cord Protection** - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. **Cleaning** - The appliance should be cleaned only as recommended by the manufacturer.
13. **Power Lines** - An outdoor antenna should be located away from power lines.
14. **Outdoor Antenna Grounding** - If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges.

    Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mats and supporting structure grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Fig. below.
15. **Non-use Periods** - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
16. **Object and Liquid Entry** - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
17. **Damage Requiring Service** - The appliance should be serviced by qualified service personnel when:
    - **A.** The power supply cord or the plug has been damaged; or
    - **B.** Objects have fallen, or liquid has been spilled into the appliance; or
    - **C.** The appliance has been exposed to rain; or
    - **D.** The appliance does not appear to operate normally or exhibits a marked change in performance; or
    - **E.** The appliance has been dropped, or the enclosure damaged.
18. **Servicing** - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Note to the CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Example of Antenna Grounding as per NEC - National Electric Code

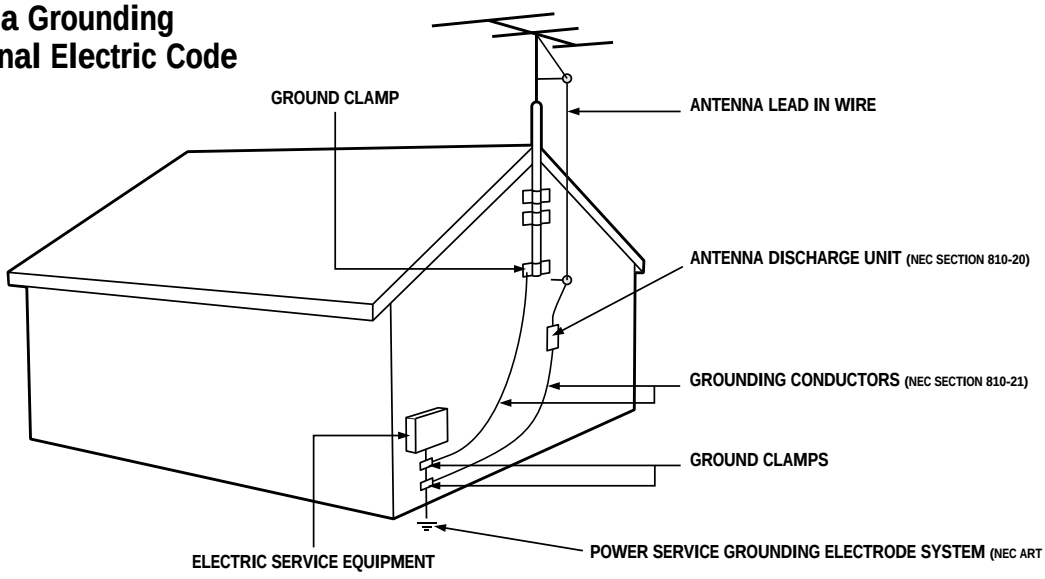

TABLE OF CONTENTS

Introduction

✧Welcome/Registration of Your TV 2
✧Safety/Precautions 3
✧Table of Contents 4
✧Features 5

ONSCREEN MENU

Picture

✧ Adjusting the Picture 6
✧ Turning ON the Dynamic Noise Reduction Control 7
✧Turning ON the ImageMax™ Control 7

Features

✧Using the Closed Captioning Control 8
✧Using the Format (screen) Control 9
✧Activating the Blue Mute Control 10
✧Using the Sleep Timer Control 11

The Timer Feature

✧ The Timer – Setting the Clock 12
✧ The Timer – Setting the Start Time 13
✧The Timer – Setting the Stop Time 14
✧The Timer – Selecting the Channel 15
✧The Timer – Setting Activate to ON or OFF 16
✧The Timer – Turning ON the Timer Display 17

The AutoLock™ Feature

✧ Understanding AutoLock™ 18
✧AutoLock™ – Setting Up the Access Code 19
✧AutoLock™ – Blocking Channels 20
✧AutoLock™ – Blocking by Movie Rating 21
✧AutoLock™ – Blocking by TV Rating 22
✧AutoLock™ – Turning Block ON or OFF 23
✧AutoLock™ – Blocking Unrated Broadcasts 24
✧AutoLock™ – Blocking Broadcasts That Have No Rating 25
✧AutoLock™ – Reviewing Your Settings 26
✧AutoLock™ – Viewing Blocked Programming 27

Sound

✧ Sound – Adjusting the Treble, Bass, and and Balance 28
✧Sound – Setting the Volume 29
✧Sound – Using the AVL (Audio Volume Leveler) 30
✧Sound – Using Incredible Surround 31
✧Sound – Setting the TV for Stereo and SAP (Second Audio Program) 32
✧Sound – Setting the Audio Out Control 33
✧Sound – Using the TV Speaker Control and Audio Output Jacks 34
✧Sound – Using the Surround Sound External Speaker Connections 35
✧Sound – Using the Audio/Video Input Jacks 36–38

Remote Control Operation

✧ Remote Control – Using AutoPicture™ 39
✧ Remote Control – Using AutoSound™ 40
✧ Remote Control – Using Channel Surf 41

The PIP (Picture-in-Picture) Feature

✧ PIP – Basic Connections 42
✧PIP – Selecting the Signal Source 43
✧PIP – Remote Control Buttons 44
✧PIP – Adjusting the Tint 45
✧PIP – More Connections 46–47

General Information

✧ Troubleshooting 48
✧Glossary of Television Terms 49
✧Index 50
✧Factory Service Locations 51
✧Limited Warranty 52

NOTE: This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television system. This is normal and does not require that you contact your dealer or request service.

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FEATURES

Audio/Video Jack Panel allows direct connections with VCRs, DVDs, or other devices, providing quality TV picture and sound playback.

Audio Volume Leveler (AVL) Control keeps the TV sound at an even level. Peaks and valleys that occur during program changes or commercial breaks are reduced, making for a more consistent, comfortable sound.

AutoChron™ automatically sets the right time of day and maintains it with digital precision through brownouts, power failures, and even Daylight Savings Time adjustments.

AutoLock™ allows you to block the viewing of certain channels or programs with certain ratings if you do not want your children to view inappropriate materials.

Auto Programming scans (when activated) for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

AutoPicture™ allows you to change the picture settings (color, tint, contrast, etc.) for various types of programming, such as sports, movies, multimedia (games), or weak signals with the push of one button.

AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular programming you are watching.

Channel Edit allows you to add or delete channels from the list stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (–) buttons on your remote control.

Closed Captioning allows the viewer to read TV program dialogue or voice conversations as onscreen text.

ImageMax™ helps you sharpen the picture quality by making dark portions of the picture darker and light portions brighter.

Infrared Remote Control works your TV and other remote-controlled devices, such as VCRs, DVD players, cable converters, and satellite receivers.

Infrared Remote (IR) Blaster works with the M-Link feature to enable your TV to "learn" the remote-control commands of new Philips devices or multibrand devices that you have connected to your TV. After the commands are learned, you can use your TV remote control to operate and control all of the devices.

M-Link™ allows you to convert your TV into a home-cinema control center composed of up to six devices (including an audio amplifier). You activate the devices by pressing macro buttons and control the devices by pressing "hot" buttons on your remote control. Choose from cable box, digital set top box, DVD (digital video disc), laser disc (LD), satellite digital TV, VCD (video compact disc), and VCR (video cassette recorder) devices.

Onscreen Menu shows helpful messages and instructions for setting TV feature controls (can be viewed in English, French, or Spanish).

Sleep Timer automatically turns the TV OFF after a set amount of time that you choose.

Standard Broadcast (VHF/UHF) or Cable TV (CATV) channel capability allows for viewing by antenna or cable.

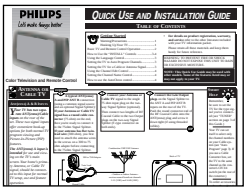
Stereo capability, including a built-in audio amplifier and twin-speaker system, allows for the reception of TV programs broadcast in stereo sound.

Surf Button allows you to easily switch among only the channels that are of interest to you (the ones that you have programmed into the TV's Surf control through the onscreen menu).

Timer allows you to set your TV to turn itself ON and OFF once or daily like an alarm clock.

QUICK USE AND INSTALLATION GUIDE

Use the simple *Quick Use and Installation Guide* (supplied with your TV information packet) for details on:



- Cable/Antenna Hookups
- Automatic Channel Programming
- Channel Editing
- Setting the TV's Clock Automatically (AutoChron™)
- Basic Operation of the TV and Remote Control
- Selection of the Onscreen Menu Language

M-LINK INSTRUCTIONS FOR USE

Use the simple *M-Link Instructions for Use* (supplied with your TV information packet) for details on:

- Operating Accessory Devices (VCR, DVD, Cable Box, and Others)
- Automatic Programming Via the TV Remote Control
- Setting Up Personal Commands
- Inputing Commands from the Remote Controls of Your Accessory Devices

END-OF-LIFE DISPOSAL

Your new television and its packing contain materials that can be recycled and reused. Specialized companies can recycle your product to increase the amount of reusable materials and minimize the amounts that need to be properly disposed.

Your product also uses batteries that should not be thrown away when depleted, but should be handed in and disposed of as small chemical waste.

When you replace your existing equipment, please find out about the local regulations regarding disposal of your old television, batteries, and packing materials.

ADJUSTING THE PICTURE

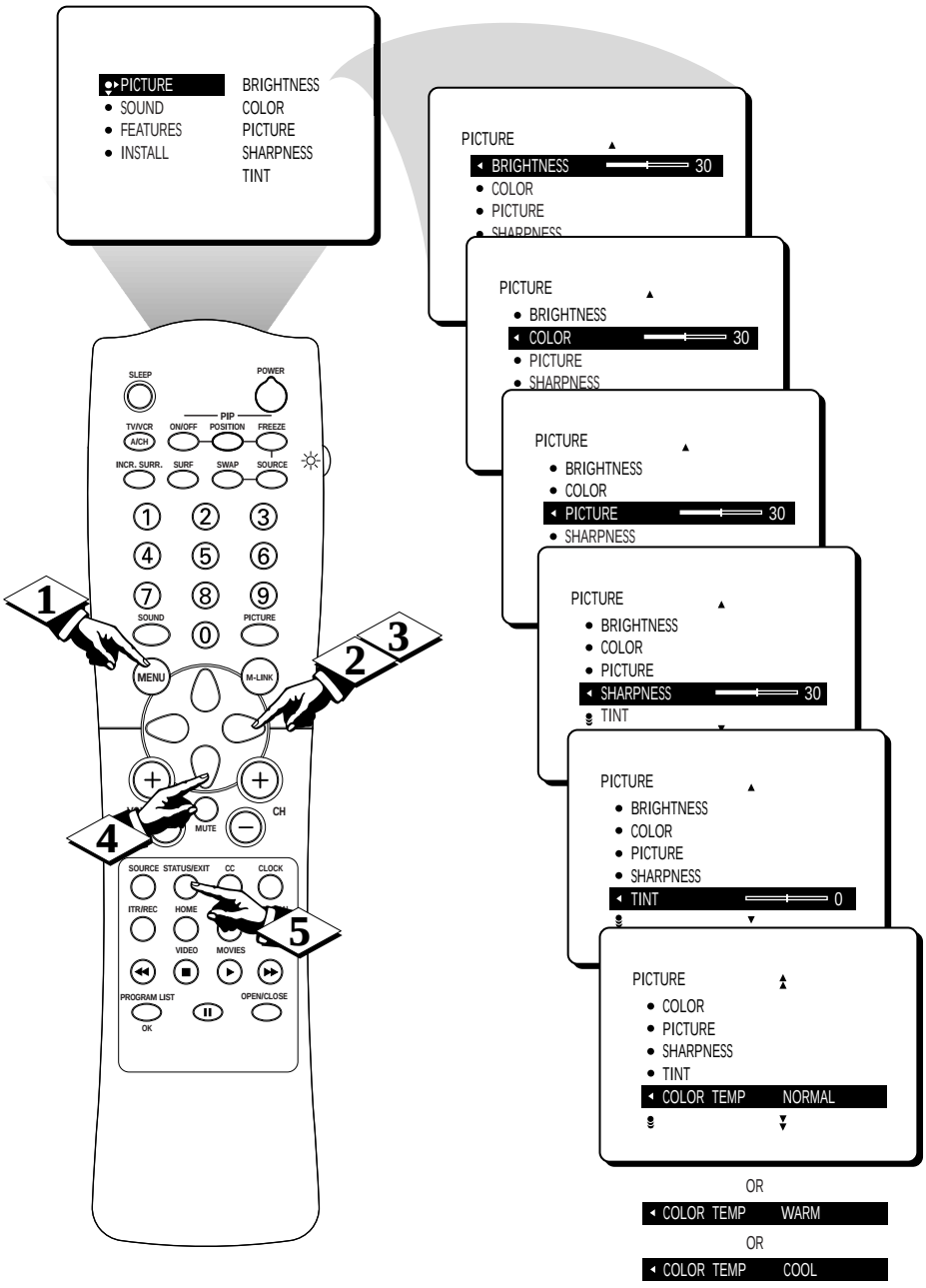
To adjust your TV picture controls, select a channel and follow these steps.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.
2. **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted and an adjustment bar will be shown to the right.
3. **Use the CURSOR LEFT or CURSOR RIGHT button** to adjust the BRIGHTNESS level of the picture.
4. After adjusting the BRIGHTNESS control, **press the CURSOR DOWN button** to select another picture adjustment: COLOR, PICTURE, SHARPNESS, TINT, OR COLOR TEMP. **Press the CURSOR LEFT or CURSOR RIGHT button** to adjust the selected control.

   NOTE: The menu will show only five items at a time, so you will need to continue scrolling with the CURSOR DOWN button to adjust the TINT and COLOR TEMP.
5. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



Remember, when the bar scale is centered , the control settings are at normal, mid-range levels. Picture adjustments are described here.

BRIGHTNESS – adds or subtracts light from the darkest part of the picture.

COLOR – adds or eliminates color.

PICTURE – improves the detail of the lightest parts of the picture.

SHARPNESS – improves the detail in the picture.

TINT – adjusts the picture to obtain natural skin tones.

COLOR TEMP offers NORMAL, COOL, or WARM picture preferences.

NORMAL – keeps whites, white.

COOL – makes whites, bluish.

WARM – makes whites, reddish.

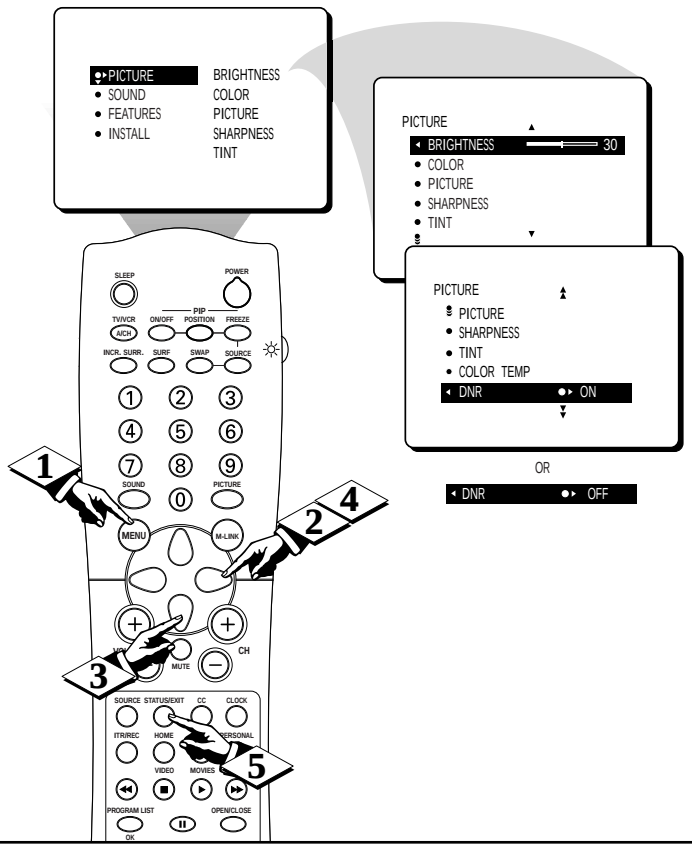
TURNING ON THE DYNAMIC NOISE REDUCTION CONTROL

Due to many reasons, such as poor cable reception, the picture can sometimes appear slightly "speckled" (an indication of signal noise in the picture). The DNR (Dynamic Noise Reduction) control can help eliminate this type of interference and improve the quality of the picture.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu. PICTURE will be highlighted.
2. **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted.
3. **Press the CURSOR DOWN button** repeatedly until the DNR control is highlighted.
4. **Press the CURSOR RIGHT button** to switch DNR ON or press the CURSOR LEFT button to switch DNR OFF.
5. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



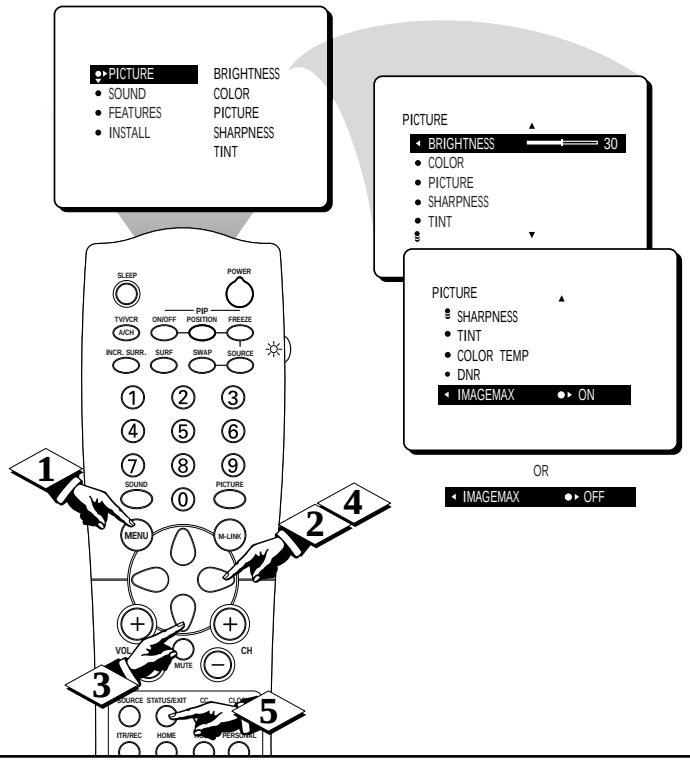
TURNING ON THE IMAGEMAX™ CONTROL

ImageMax™ helps you sharpen the picture quality by making dark portions of the picture darker and light portions of the picture brighter. Follow these steps to turn ImageMax™ ON.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu. PICTURE will be highlighted.
2. **Press the CURSOR RIGHT button** and the menu will shift to the left. BRIGHTNESS will be highlighted.
3. **Press the CURSOR DOWN button** repeatedly until the IMAGEMAX control is highlighted.
4. **Press the CURSOR RIGHT button** to switch between ON and OFF.
5. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



USING THE CLOSED CAPTIONING CONTROL

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses onscreen "text boxes" to show dialogue and conversations while the TV program is in progress.

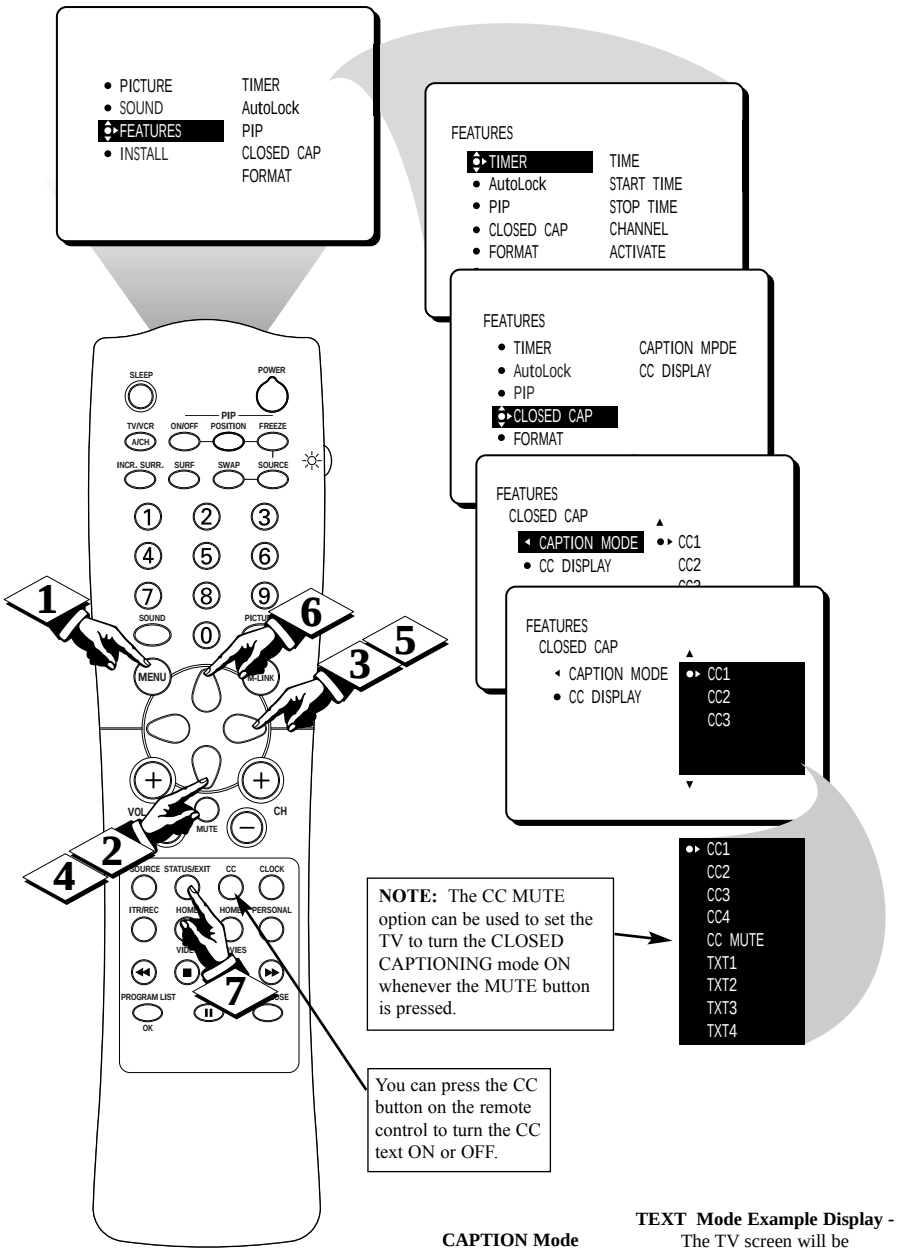
BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the CLOSED CAP control is highlighted.
5. **Press the CURSOR RIGHT button** again. The menu will shift to the left and CAPTION MODE will be highlighted. Then **press the CURSOR RIGHT button** to highlight CAPTION MODEs.
6. **Press the CURSOR UP or CURSOR DOWN button** to select a CAPTION MODE: CC1, CC2, CC3, CC4, CMUTE, TXT1, TXT2, TXT3, or TXT4. CC DISPLAY turns text OFF or ON if the TV station broadcasting on the channel is making CLOSED CAPTIONING available. With CC DISPLAY highlighted, press the CURSOR RIGHT button to toggle Closed Captioning ON or OFF.

   NOTE: You also can press the CC button on the remote control to turn the CC TEXT ON or OFF.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP

NOTE: Not all TV programs and product commercials are broadcast with Closed Captioning (CC). Nor are all Closed Captioning MODEs (CAPTION 1–4 or TEXT 1–4) necessarily being used by broadcast stations during the transmission of a program offering Closed Captioning. Refer to your area's TV program listings for the stations and times of shows being broadcast with Closed Captioning.



CAPTION Mode Example Display

TEXT Mode Example Display - The TV screen will be blocked from viewing.

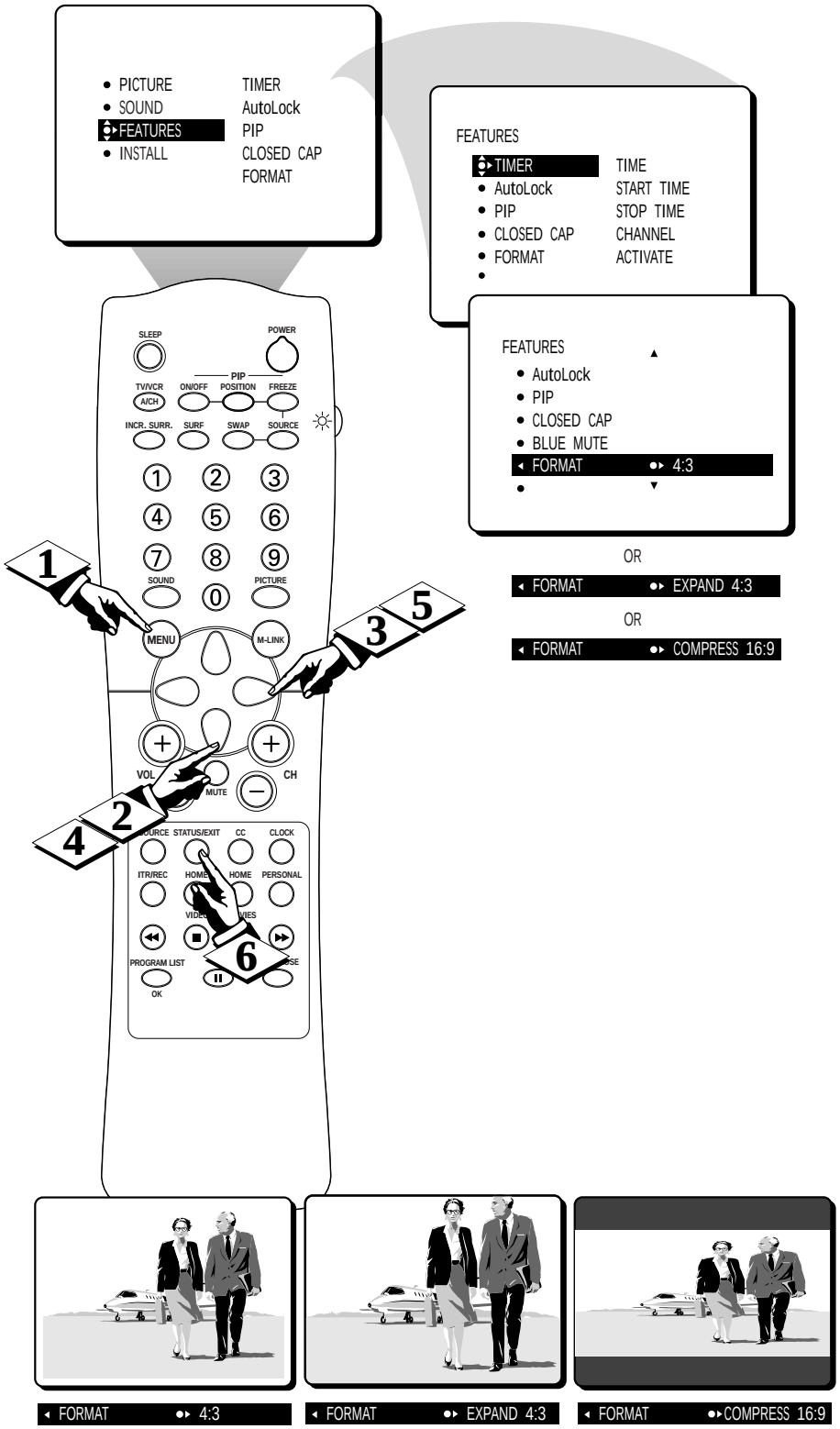
SELECTING THE SCREEN FORMAT SIZE

You can change the screen format size to match the type of program you're watching. Select the normal 4:3 aspect ratio or expand the 4:3 aspect ratio to completely fill the screen. There also is a compressed 16:9 aspect ratio, which allows movies to be viewed in their full width (known as letterbox style).

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the FORMAT control is highlighted.
5. **Press the CURSOR RIGHT button** repeatedly to toggle among the three screen format sizes – 4:3, EXPAND 4:3, or COMPRESS 16:9.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SMART HELP

Without the onscreen menu display showing, you also can press the CURSOR UP or CURSOR DOWN button on the remote control to toggle among the screen sizes 4:3, Expand 4:3, or Compress 16:9.

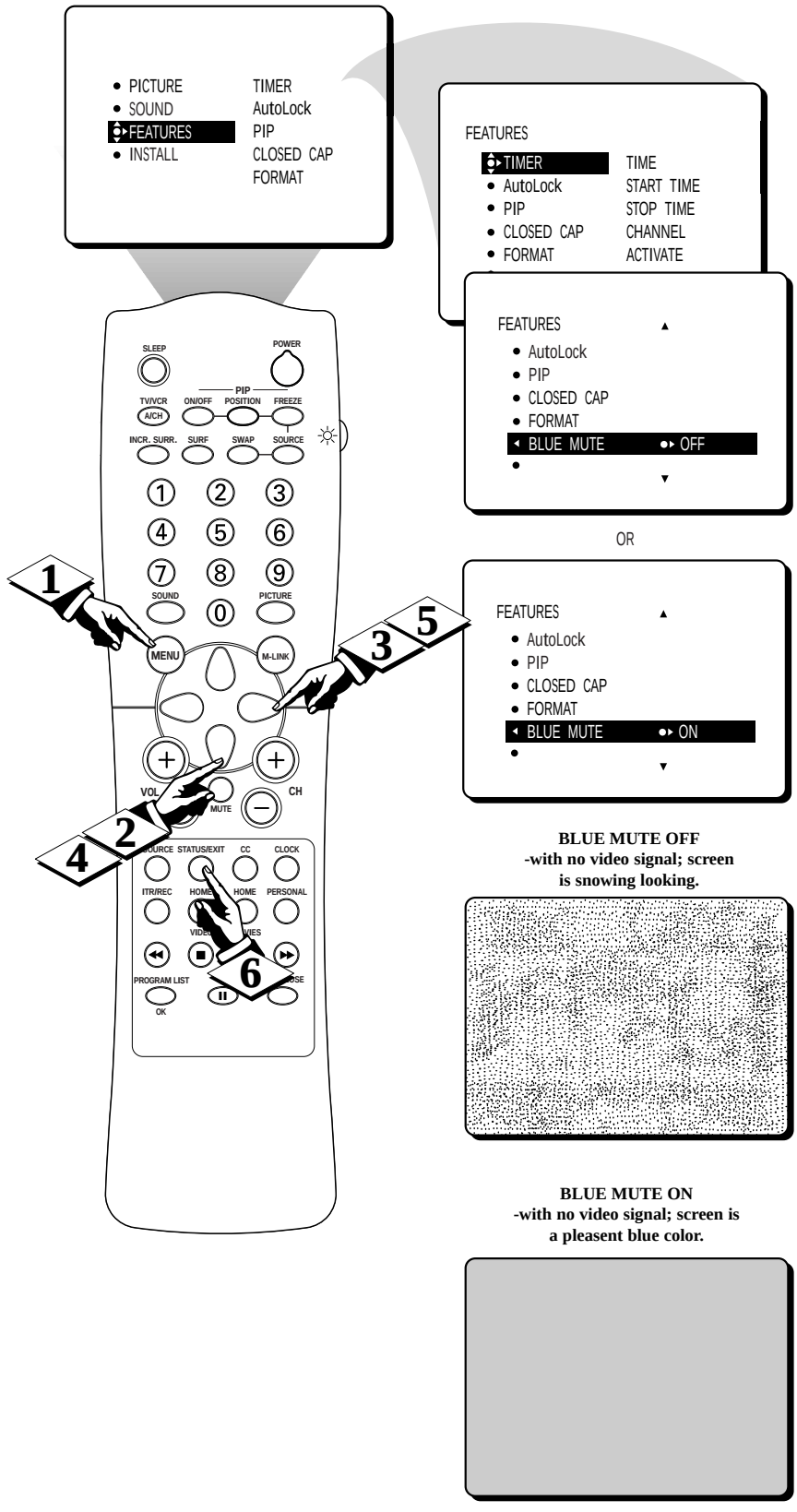
ACTIVATING THE BLUE MUTE CONTROL

The Blue Mute feature will eliminate annoying snow from the screen when no video signal is present by displaying a pleasent blue screen. This occurs in cases such as when a VCR tape is removed or an antenna signal is broken. To turn the Blue Mute feature ON or OFF, follow the steps below.

BEGIN

1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until the BLUE MUTE control is highlighted.
5. **Press the CURSOR RIGHT button** repeatedly to toggle the Blue Mute option ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



BLUE MUTE OFF
-with no video signal; screen is snowing looking.

BLUE MUTE ON
-with no video signal; screen is a pleasent blue color.

USING THE SLEEP TIMER

Have you ever fallen asleep in front of the TV, only to have it wake you up at two in the morning with a test pattern sound screeching in your ears? Well, your TV can enable you to avoid that discomfort by automatically turning itself off. With the Sleep Timer feature, you can set a timer to automaticaly swtich the TV OFF after a period of time you choose (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes).

BEGIN

1 **Press the SLEEP button** on the remote control. The SLEEP timer onscreen display will appear in the upper part of the screen.

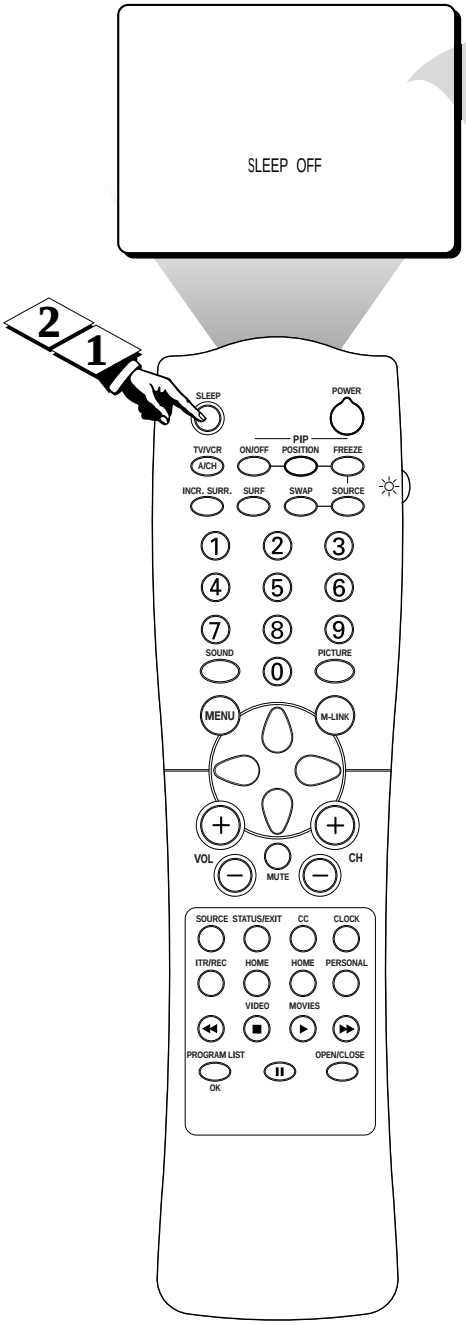
2 **Within five seconds, press the SLEEP button** repeatedly to pick the amount of time (15-minute increments up to 60 minutes, then 30-minute increments up to 90 minutes, then 60-minute increments up to 240 minutes) before the TV will turn itself off.

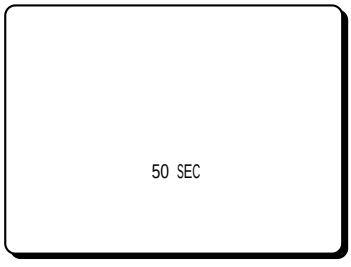
An onscreen countdown will appear during the last minute before the TV shuts itself off.

STOP

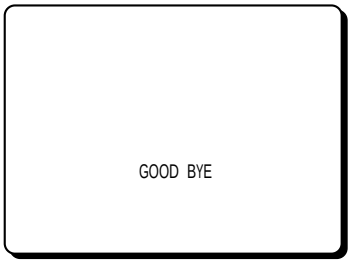
SMART HELP

To see how many minutes remain before the TV shuts itself off, press the STATUS/EXIT button.

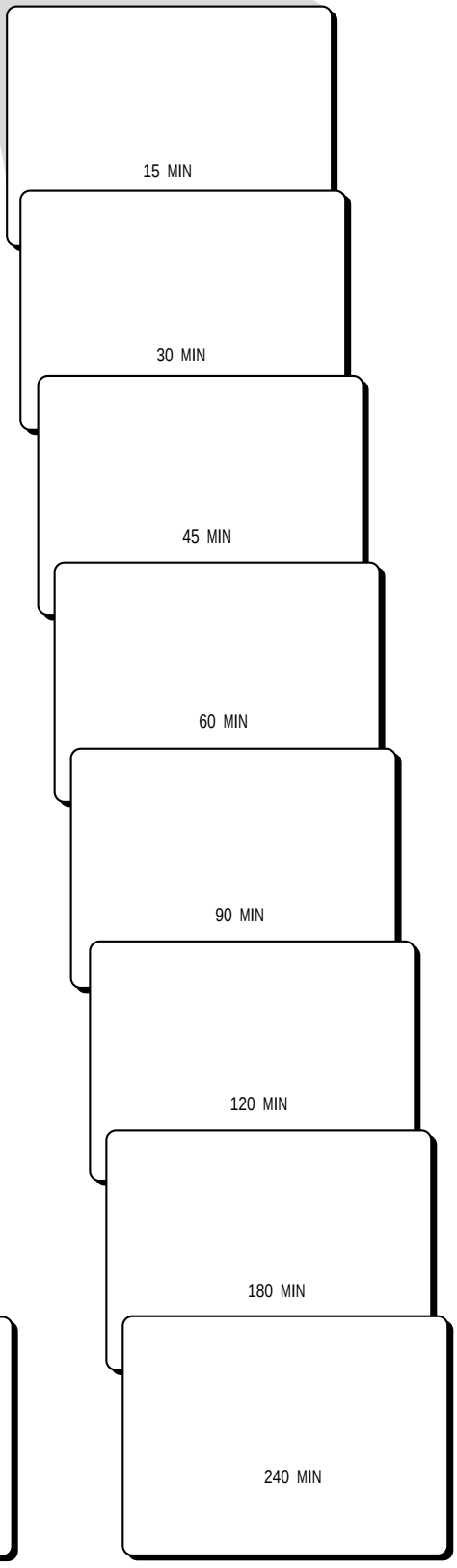




During the last minute of a SLEEP timer setting, an onscreen countdown will be displayed.



During the last 10 seconds of a SLEEP timer setting, an onscreen display will read GOOD BYE.



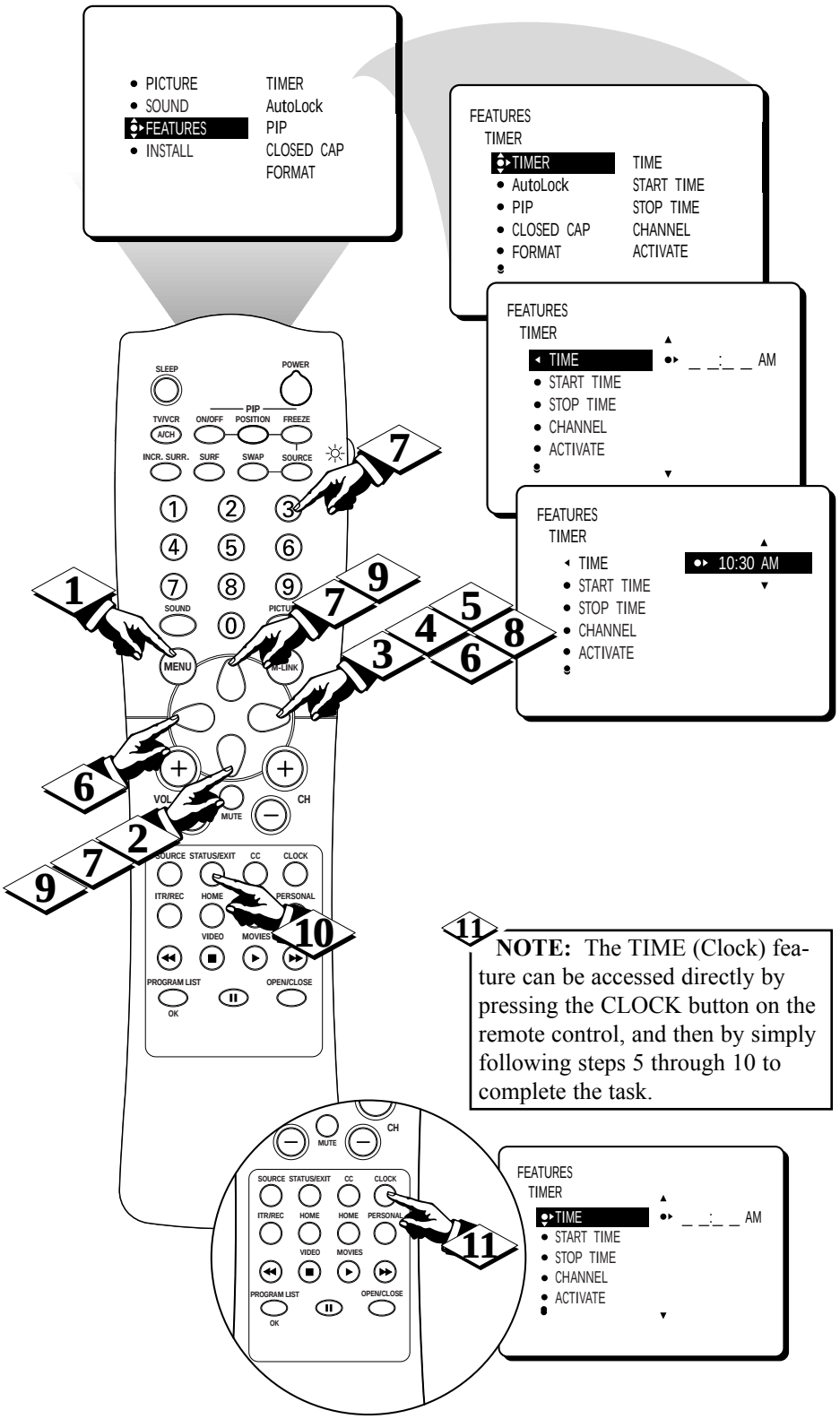
THE TIMER – SETTING THE CLOCK

Your television comes with an on-screen clock. During normal operation, the clock appears on the screen when the STATUS/EXIT button is pressed or if the TIMER DISPLAY control is turned ON.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **With TIMER selected, press the CURSOR RIGHT button** again to shift the display left and highlight the TIME control.
5. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
6. **Press the CURSOR LEFT or CURSOR RIGHT button** to select the position or digit you wish to enter.
7. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the correct time.
8. **Press the CURSOR RIGHT button** to move to the AM or PM position.
9. **Press the CURSOR UP or DOWN button** to set AM or PM.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



NOTE: The TIME (Clock) feature can be accessed directly by pressing the CLOCK button on the remote control, and then by simply following steps 5 through 10 to complete the task.

SMART HELP

Remember, be sure to press *0* first and then the hour number for single-digit entries.

The Clock also can be set automatically using the AutoChron™ feature found on page 4 of the *Quick Use and Installation Guide* that came with your television.

The TV's clock settings may be lost when the TV is unplugged (or when AC power to the set is interrupted).

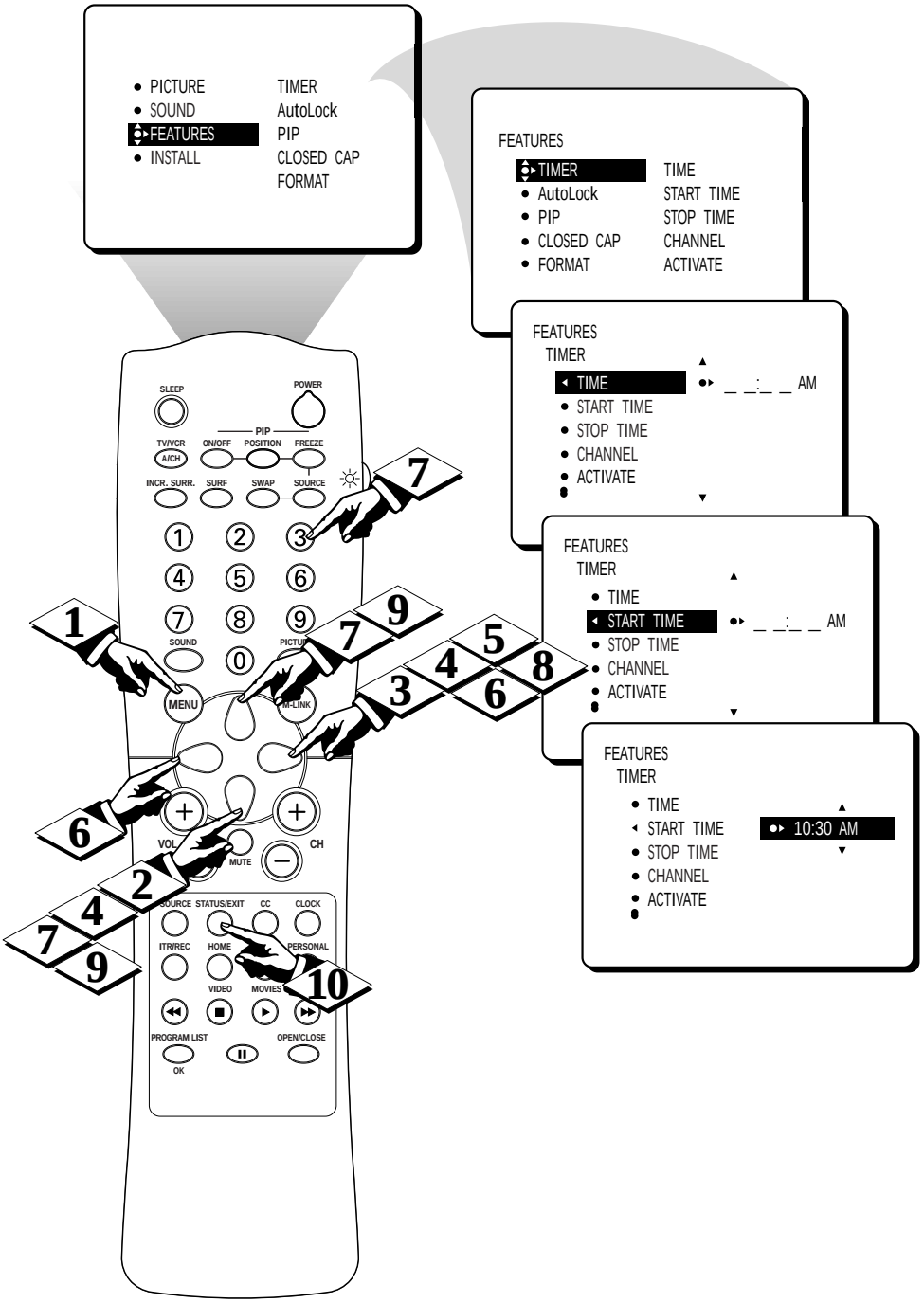
THE TIMER – SETTING THE START TIME

Just as you would an alarm clock, you can set the TV to turn itself ON once or at the same time every day. Follow these steps to set the Start Time.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR RIGHT button** again to shift the display left. Then **press the CURSOR DOWN button** once to highlight the START TIME control.
5. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
7. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the correct time.
8. **Press the CURSOR RIGHT button** to move to the AM or PM position.
9. **Press the CURSOR UP or DOWN button** to set AM or PM.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



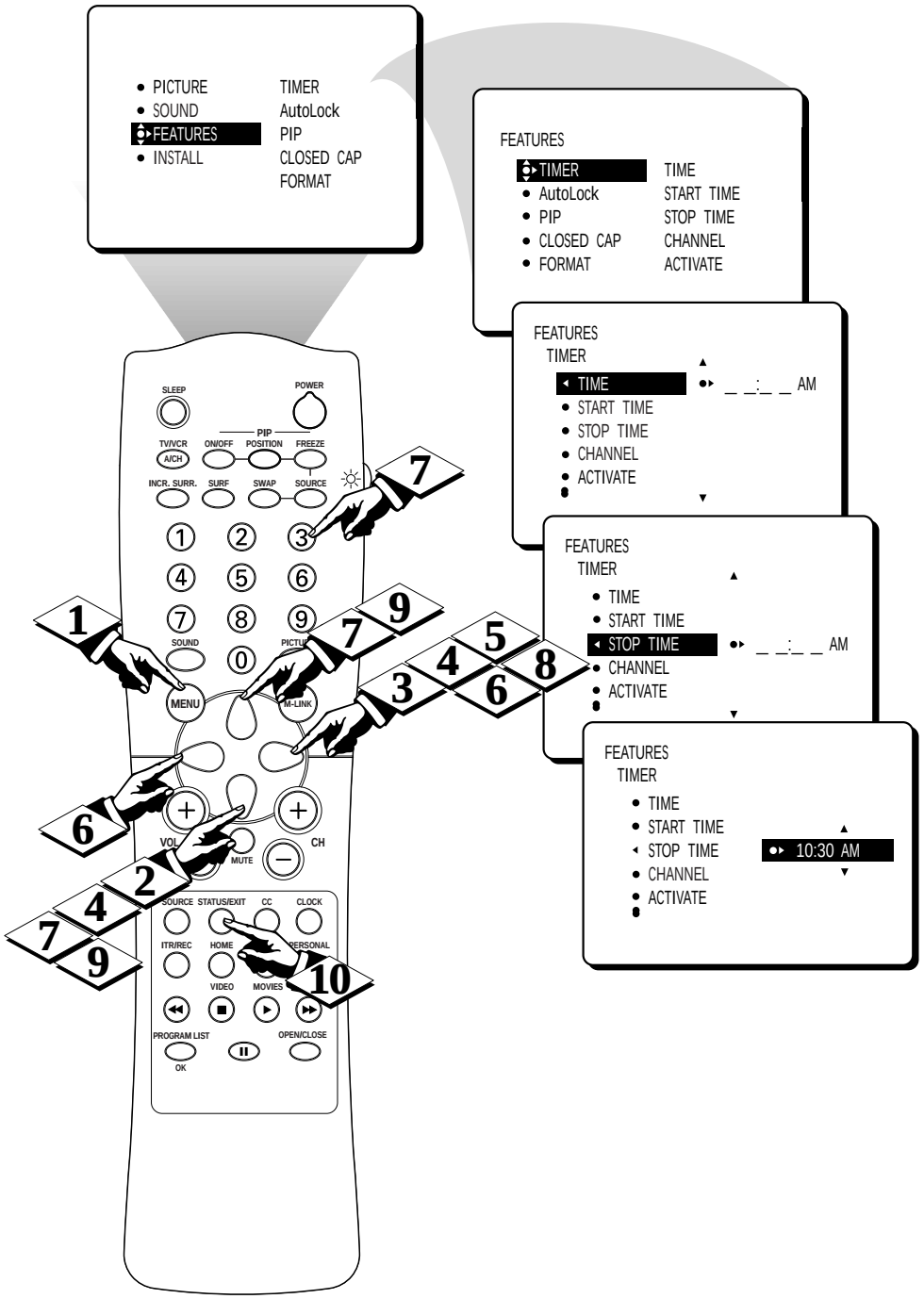
THE TIMER – SETTING THE STOP TIME

Use the START TIME control to set the TV to turn itself ON once or at the same time every day (see page 13 for details). The following steps will guide you in setting the TV to turn itself OFF once or at the same time every day.

BEGIN

1. **Press the MENU button** on the remote control to show the on-screen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR RIGHT button again** to shift the display left. Then **press the CURSOR DOWN button** once twice to highlight the STOP TIME control.
5. **Press the CURSOR RIGHT button** again to highlight the time indicator area.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** to move among the positions where the time is input.
7. **Press the CURSOR UP or CURSOR DOWN button** to select the digits for the time. **Or press the NUMBERED buttons** to enter the correct time.
8. **Press the CURSOR RIGHT button** to move to the AM or PM position.
9. **Press the CURSOR UP or DOWN button** to set AM or PM.
10. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



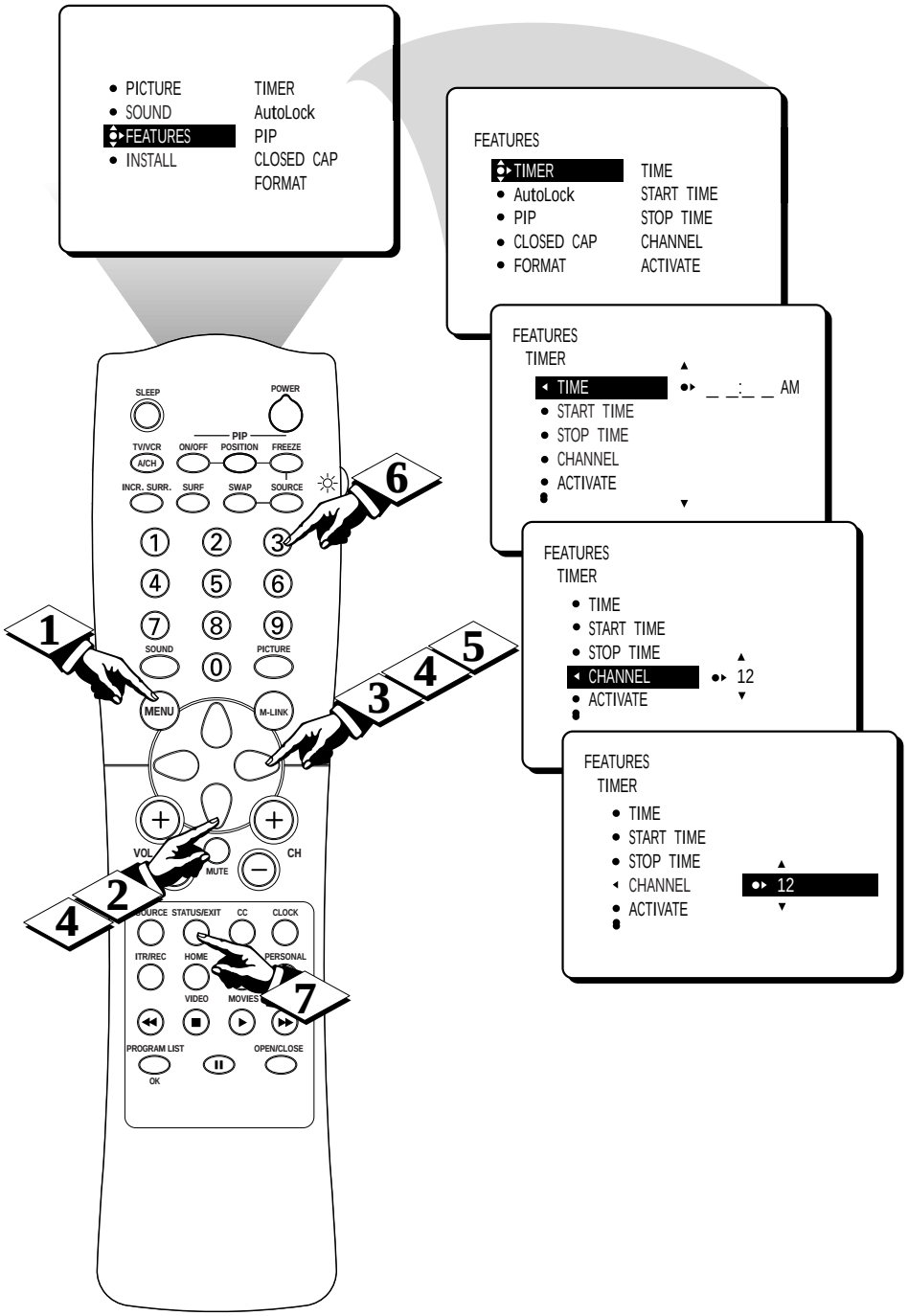
THE TIMER – SELECTING THE CHANNEL

You can select a specific channel that the television will tune to when the timer turns the set ON. Follow these steps to select the channel.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR RIGHT button** again to shift the menu to the left. Then **press the CURSOR DOWN button** repeatedly until the CHANNEL control is highlighted.
5. **Press the CURSOR RIGHT button** again to highlight the channel indicator area.
6. **Press the NUMBERED buttons** to enter the desired start-up channel. **Or, press the CURSOR RIGHT button** to enter the start-up channel you want.
7. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



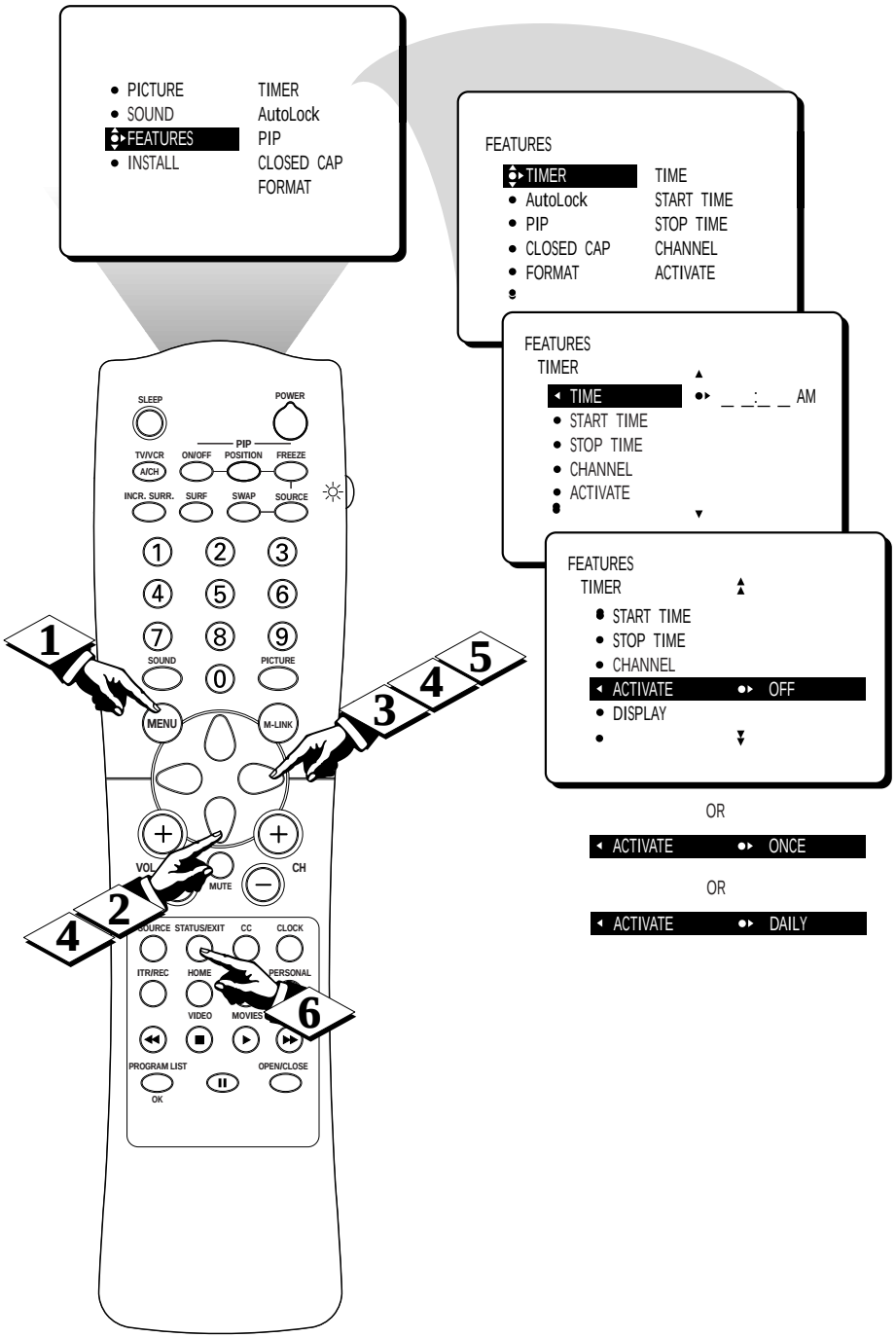
THE TIMER – SETTING ACTIVATE TO ON OR OFF

After you have set the Time, Start Time, Stop Time, and Start Channel, the timer must be set to come on ONCE or DAILY, or turned OFF through the ACTIVATE control.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR RIGHT button** again to shift the display to the left. Then **press the CURSOR DOWN button** repeatedly until the ACTIVATE control is highlighted.
5. **Press the CURSOR RIGHT button** again to set ACTIVATE to ONCE; **press the CURSOR RIGHT button** again for DAILY; and **press the CURSOR RIGHT button** again to toggle ACTIVATE to OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SMART HELP

Remember, before setting the TIMER controls, the TV's clock must be set to the correct time manually (see page 12) or by using the AutoChron™ feature described on page 4 of the *Quick Use and Installation Guide.*

Try it! After following the steps on pages 12–17, use your TV as an alarm clock.

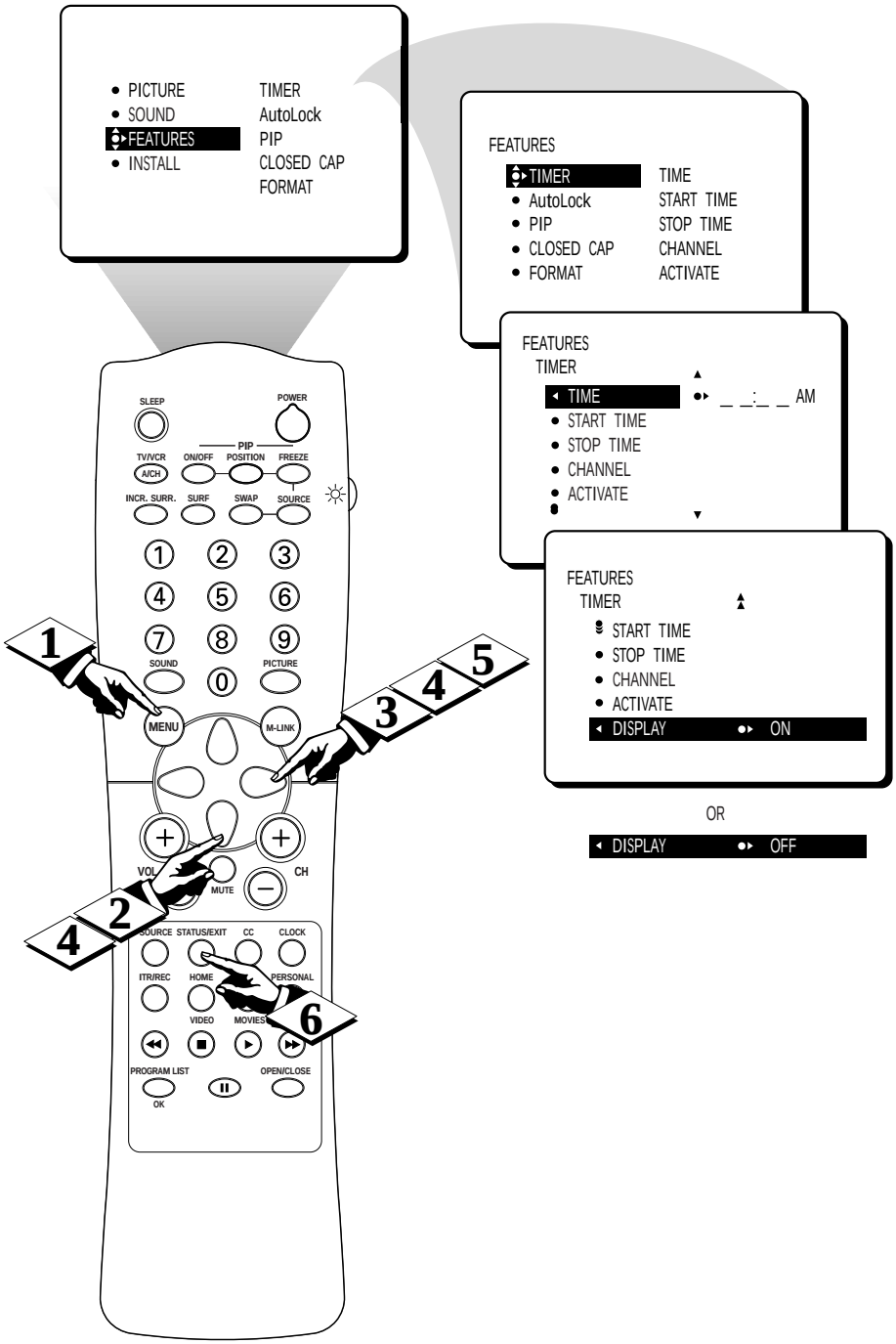
THE TIMER – TURNING ON THE TIMER DISPLAY

After the TV's clock has been set, you can use your TV as a clock. The TIMER DISPLAY control allows you to permanently display the time in the upper right corner of the screen.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TIMER will be highlighted.
4. **Press the CURSOR RIGHT button** again to shift the menu left. Then **press the CURSOR DOWN button** repeatedly until the DISPLAY control is highlighted.
5. **Press the CURSOR RIGHT or CURSOR LEFT button** to turn the TIMER DISPLAY ON or OFF.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SMART HELP

Remember, be sure you have set the TV's clock with the correct current time. *(Refer to page 12 to set the clock manually or page 4 of the Quick Use and Installation Guide to set the clock automatically using the AutoChron™ feature.)*

UNDERSTANDING AUTOLOCK™

The AutoLock™ feature receives and processes data sent by broadcasters or other program providers that contain program content advisories. When programmed by the viewer, a TV with AutoLock™ can respond to the content advisories and block program content that may be found objectionable (such as offensive language, violence, sexual situations, etc.). This is a great feature to censor the type of programming children may watch.

In the AutoLock™ section, you'll learn how to block channels and programming that is not rated, is unrated, or has no rating. You will also find out how to turn these blocking features ON or OFF. Following are brief explanations of some terms and ratings related to the AutoLock™ feature.

AutoLock™ offers various Blocking Options from which to choose:

BLOCKING: The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen.

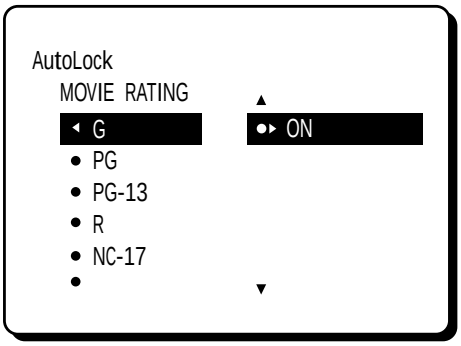
BLOCK UNRATED: ALL unrated programs will be blocked if this feature is set to ON.

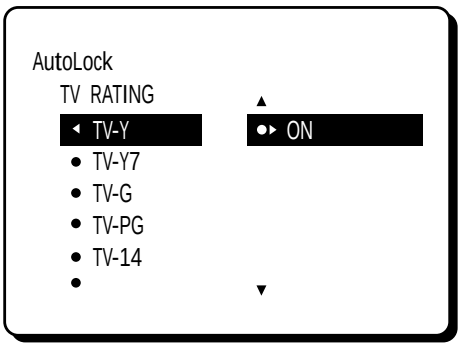
UNRATED programming is encoded with information from the MPAA (Motion Picture Association of America) or TV broadcasters, but it does not have a specific rating. In other words, the MPAA or the TV broadcasters have chosen not to assign a rating to the programming.

NO RATING: ALL programming with no content advisory data can be blocked if NO RATING is set to ON.

Programming that has No Rating is not encoded with any rating information from the MPAA or the Parental Guidelines. Any programming could fall into this category.

You also can block individual channels or block programming based on ratings of the MPAA and TV broadcasters. (See a description of the ratings on this page.)





MOVIE RATINGS
(MOTION PICTURE ASSOCIATION OF AMERICA)

G: General Audience - All ages admitted. Most parents would find this programming suitable for all ages. This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

PG: Parental Guidance Suggested - This programming contains material that parents may find unsuitable for younger children. It may contain one or more of the following: Moderate violence, some sexual situations, infrequent coarse language, or some suggestive dialogue.

PG-13: Parents Strongly Cautioned - This programming contains material that parents may find unsuitable for children under the age of 13. It contains one or more of the following: violence, sexual situations, coarse language, or suggestive dialogue.

R: Restricted -This programming is specifically designed for adults. Anyone under the age of 17 should view this programming only with an accompanying parent or adult guardian. It contains one or more of the following: intense violence; intense sexual situations; strong, coarse language; or intensely suggestive dialogue.

NC-17: No one under the age of 17 will be admitted. - This type of programming should be viewed by adults only. It contains graphic violence; explicit sex; or crude, indecent language.

X: Adults Only - This type of programming contains one or more of the following: very graphic violence, very graphic and explicit or indecent sexual acts, very coarse and intensely suggestive language.

TV PARENTAL GUIDELINES
(TV BROADCASTERS)

TV Y ***TV-Y*****:** (**All children** -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2-6. This type of programming is not expected to frighten younger children.

TV Y7 ***TV-Y7***: (**Directed to Older Children** -- *This program is designed for children ages 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV G ***TV-G*****:** (**General Audience** -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or sexual situations.

TV PG ***TV-PG***: (**Parental Guidance Suggested** -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: Moderate violence (V), some sexual situations (S), infrequent coarse language (L), or some suggestive dialogue (D).

TV 14 ***TV-14***: (**Parents Strongly Cautioned** -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intense violence (V); intense sexual situations (S); strong, coarse language (L); or intensely suggestive dialogue (D).

TV MA ***TV-MA***: (**Mature Audience Only** -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: graphic violence (V); explicit sexual situations (S); or crude, indecent language (L).

AUTOLOCK™ – SETTING UP THE ACCESS CODE

AutoLock™ allows parents to block out or "censor" any channels they think children should not watch. A channel blocked by the AutoLock™ control cannot be viewed until a correct access code is used to unlock the channel for viewing. First, let's set your AutoLock access code.

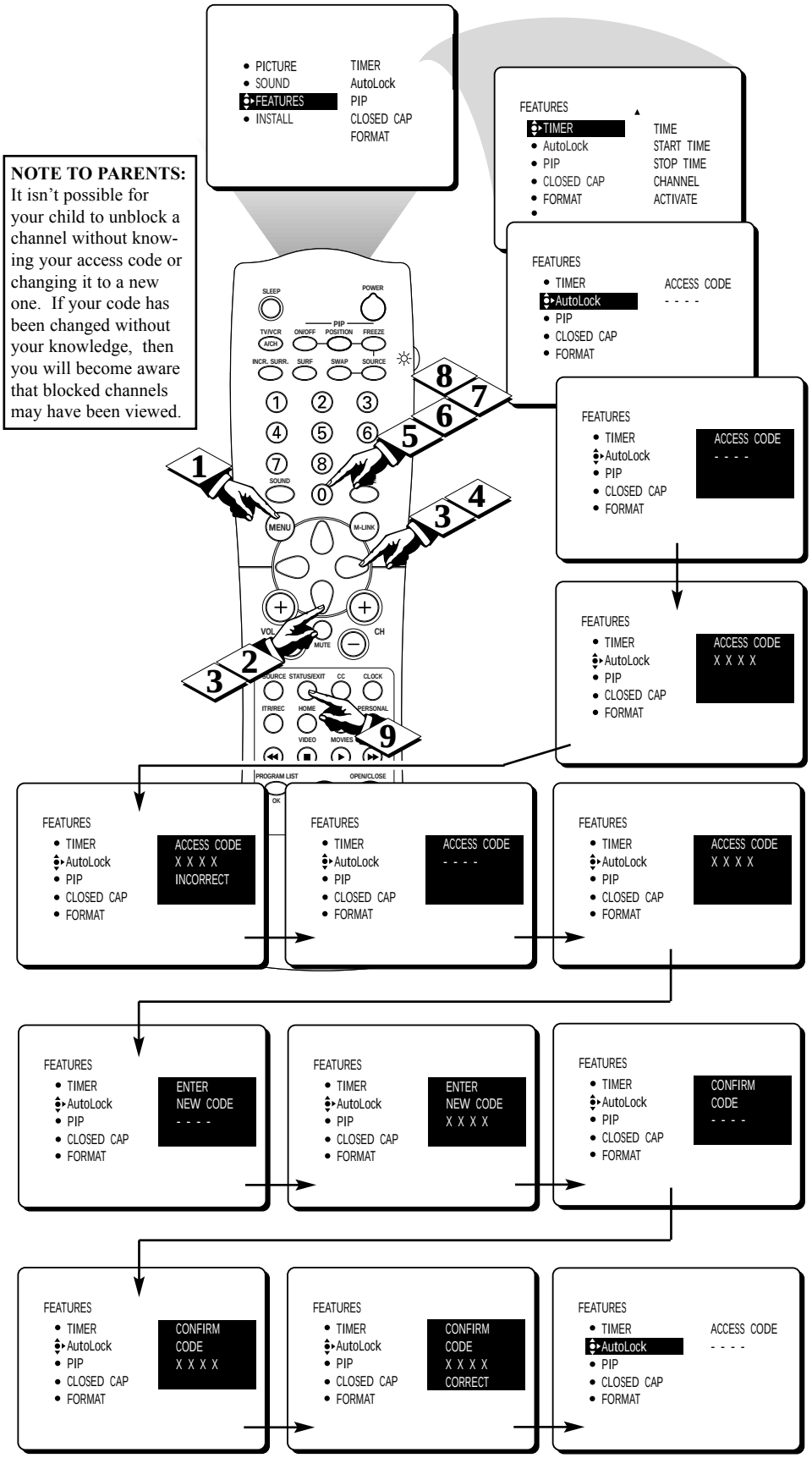
BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** to highlight **ACCESS CODE.**
5. **Press 0,7,1,1** on the remote control. *INCORRECT* will appear on the screen.
6. **Press 0,7,1,1** on the remote control again. ENTER NEW CODE will appear on the screen.
7. **Enter a new four-digit code** using the number buttons. CONFIRM CODE will appear on the screen.
8. **Enter your new four-digit code** again. *CORRECT* will flash on the screen briefly and the highlight bar goes back to AutoLock.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP

Remember that 0711 is the default AutoLock™ code. If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting the default code.

NOTE TO PARENTS: It isn't possible for your child to unblock a channel without knowing your access code or changing it to a new one. If your code has been changed without your knowledge, then you will become aware that blocked channels may have been viewed.



AUTOLOCK™ – BLOCKING CHANNELS

After your personal access code has been set (see the previous page), you are ready to select the channels or inputs you want to block out or censor.

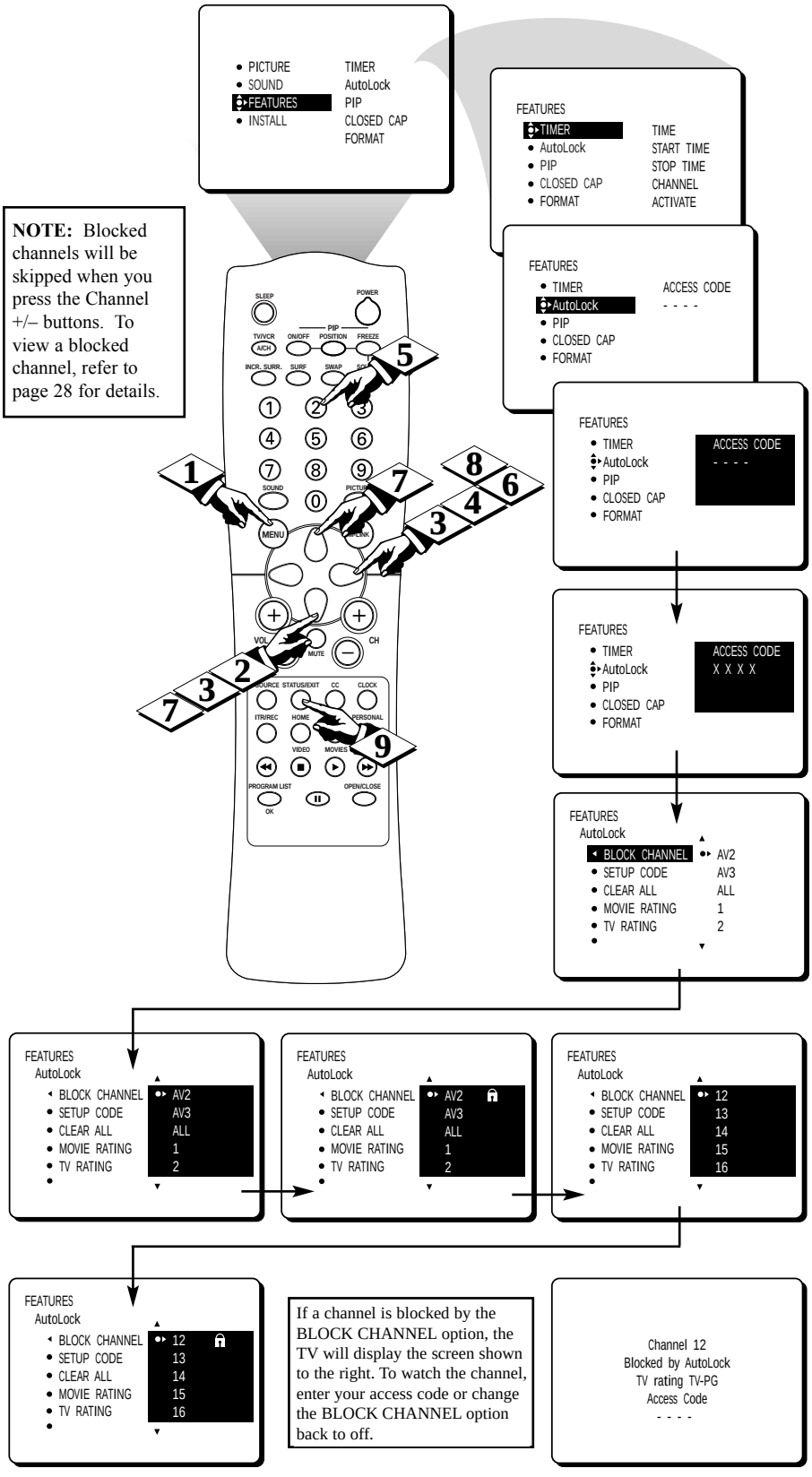
BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock™ control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR RIGHT button** to highlight the TV's available channels.
7. **Press the CURSOR UP or CURSOR DOWN button** to highlight the channel you want to block.
8. **Press the CURSOR RIGHT button** to block the channel. A padlock image appears to the right of the channel number.

   Repeat steps 7 and 8 for any channels you want to block from viewing.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP

NOTE: Blocked channels will be skipped when you press the Channel +/– buttons. To view a blocked channel, refer to page 28 for details.



If a channel is blocked by the BLOCK CHANNEL option, the TV will display the screen shown to the right. To watch the channel, enter your access code or change the BLOCK CHANNEL option back to off.

NOTE: You also can block out the use of the A/V external inputs on the rear of the TV. This stops the viewing of VCR, DVD, and other sources that can be shown through the A/V input jacks. Select AV1, AV2, or AV3 and then select BLOCK.

AUTOLOCK™ – BLOCKING BY MOVIE RATING

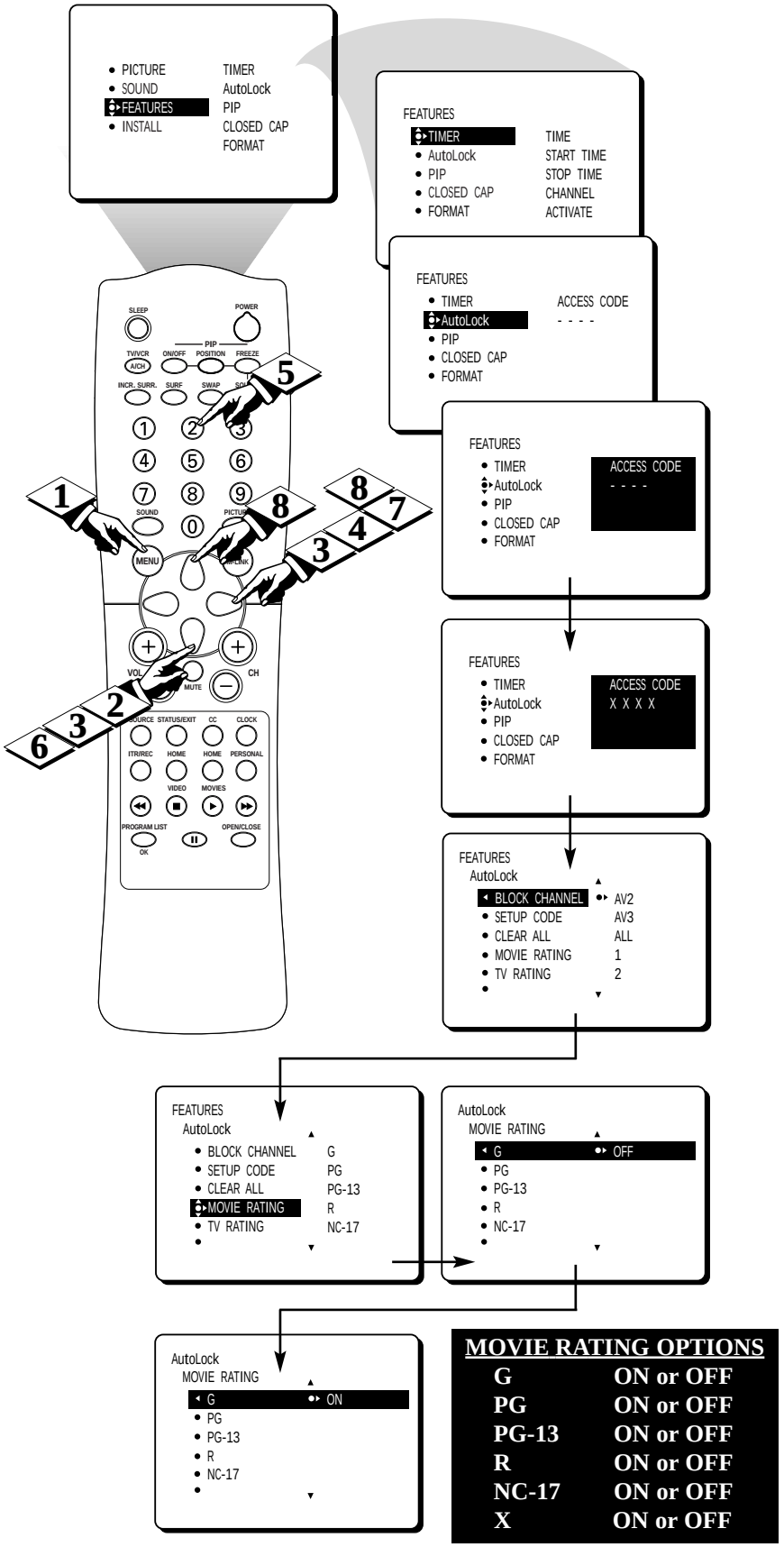
After your personal access code has been set (see page 19), you can select specific movie ratings that you want to censor.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button again** to highlight ACCESS CODE**.**
5. **Enter your four-digit ACCESS CODE.** *CORRECT* will flash very briefly in red and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** repeatedly until MOVIE RATING is highlighted.
7. **Press the CURSOR RIGHT button** and the Rating menu shifts to the left with *G* highlighted.
8. **Press the CURSOR UP or CURSOR DOWN button** to highlight each rating you want. Then **press the CURSOR RIGHT button** to turn the rating ON or OFF. Turning the rating ON will block programs with that rating from being seen.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

NOTE: When a rating is turned ON, all higher ratings also will be turned on automatically. For example, if the *R* rating is turned on, the *NC-17* and *X* ratings also will be turned on.

STOP



MOVIE RATING OPTIONS	
G	ON or OFF
PG	ON or OFF
PG-13	ON or OFF
R	ON or OFF
NC-17	ON or OFF
X	ON or OFF

AUTOLOCK™ – BLOCKING BY TV RATING

You also can select specific TV ratings that you want to censor by following these steps.

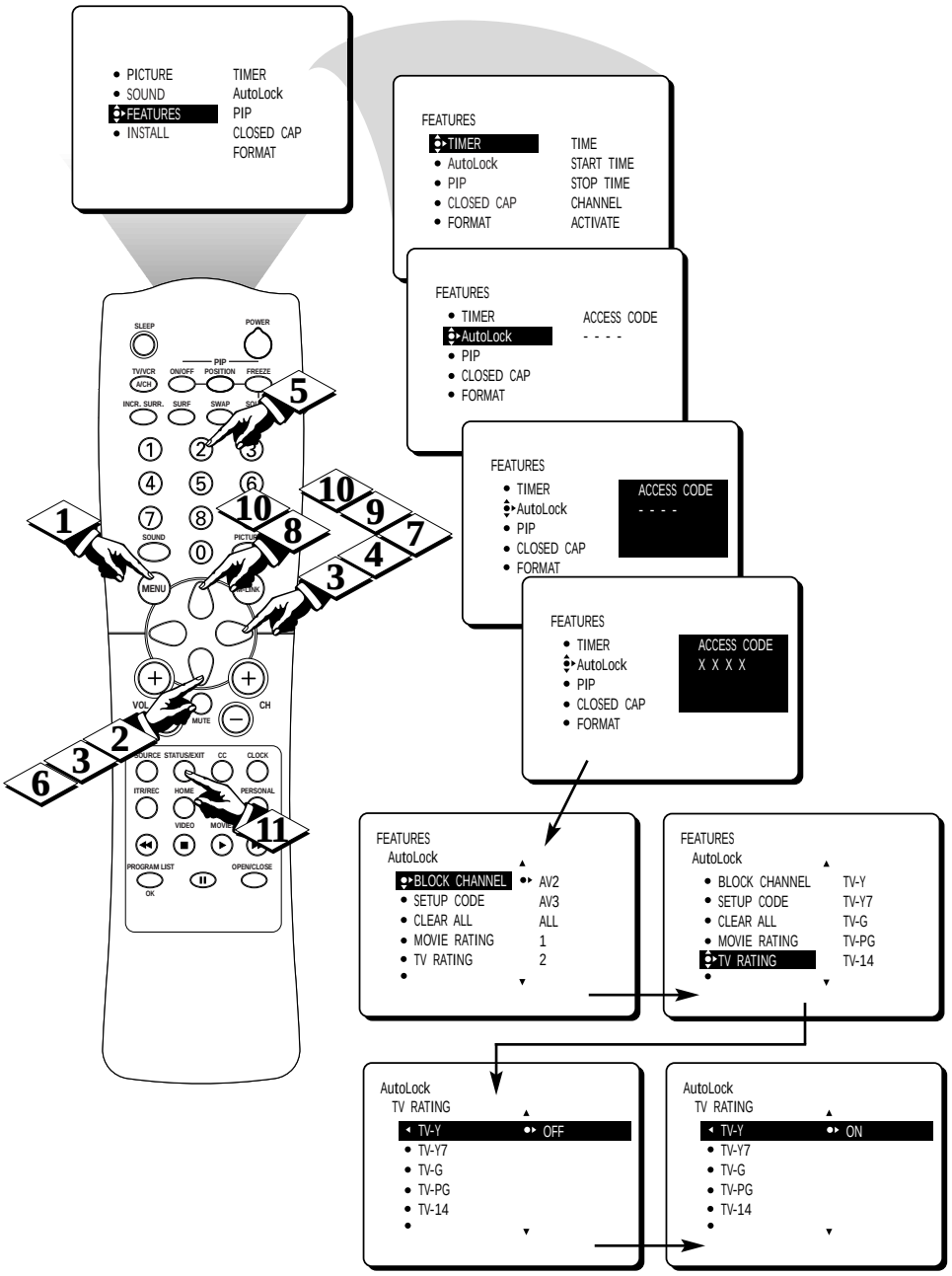
BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** repeatedly until TV RATING is highlighted.
7. **Press the CURSOR RIGHT button** and the menu will shift to highlight the TV RATING options.
8. **Press the CURSOR UP or DOWN button** to select a rating.
9. **Press the CURSOR RIGHT or LEFT button** to turn the block on the rating ON or OFF.

NOTE: More specific subratings (for violence, sexual content, dialogue, or fantasy violence) are available for TV-Y7, TV-PG, TV-14, and TV-MA.

10. To access these subratings, **press the CURSOR RIGHT button. Press the CURSOR UP or DOWN button** to select the subrating that you want to block or unblock. Then **press the CURSOR RIGHT or CURSOR LEFT button** to turn the block on the subrating ON or OFF.
11. **Press the STATUS/EXIT button** to remove the menu.

STOP



TV-Y: (All children -- *This program is designed to be appropriate for all children.*) Designed for a very young audience, including children ages 2–6. This type of programming is not expected to frighten younger children.

TV-Y7: (Directed to Older Children -- *This program is designed for children age 7 and above.*) It may be more appropriate for children who have acquired the development skills needed to distinguish between make-believe and reality. This programming may include mild fantasy and comic violence (FV).

TV-G: (General Audience -- *Most parents would find this program suitable for all ages.*) This type of programming contains little or no violence, no strong language, and little or no sexual dialogue or situations.

TV-PG: (Parental Guidance Suggested -- *This program contains material that parents may find unsuitable for younger children.*) This type of programming contains one or more of the following: some suggestive dialogue (D), infrequent coarse language (L), some sexual situations (S), or moderate violence (V).

TV-14: (Parents Strongly Cautioned -- *This program contains some material that many parents would find unsuitable for children under 14 years of age.*) This type of programming contains one or more of the following: intensely suggestive dialogue (D); strong, coarse language (L); intense sexual situations (S); or intense violence (V).

TV-MA: (Mature Audience Only -- *This program is specifically designed to be viewed by adults and therefore may be unsuitable for children under 17.*) This type of programming contains one or more of the following: crude, indecent language (L); explicit sexual situations (S); or graphic violence (V).

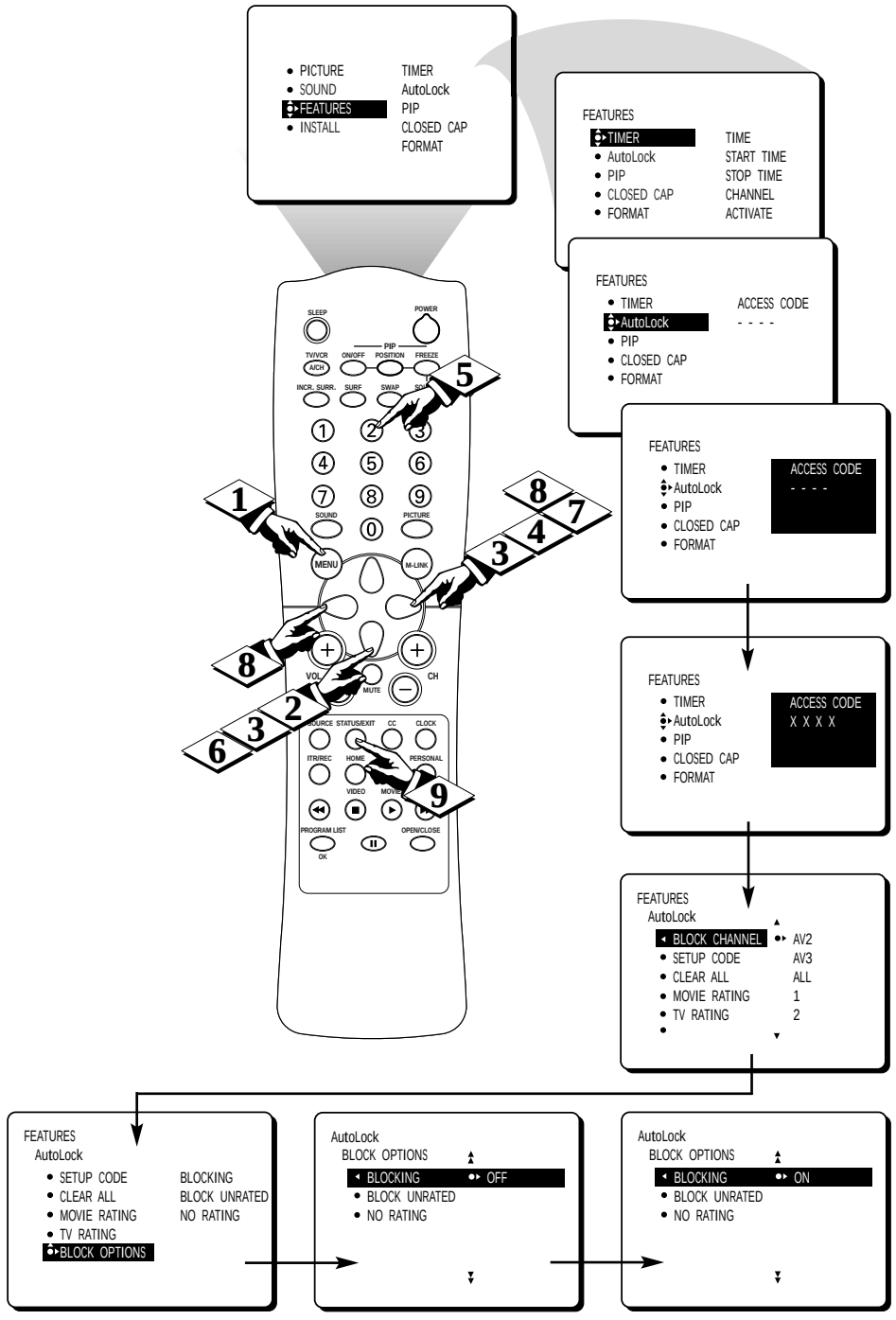
AUTOLOCK™ – TURNING BLOCK ON OR OFF

The BLOCKING control is what can be thought of as the "master switch" for AutoLock™. This control affects the settings you have chosen for blocking programs according to movie ratings or TV ratings, or for blocking programs that have no rating or are unrated. When the BLOCKING control is OFF, the blocking or censoring of programs is disabled. When the BLOCKING control is ON, blocking will occur according to the settings you have chosen. Follow these steps to toggle BLOCKING OFF or ON.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
7. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
8. **Press the CURSOR RIGHT or LEFT button** to toggle BLOCKING ON or OFF.
9. **Press the STATUS/EXIT button** to remove the menu.

STOP



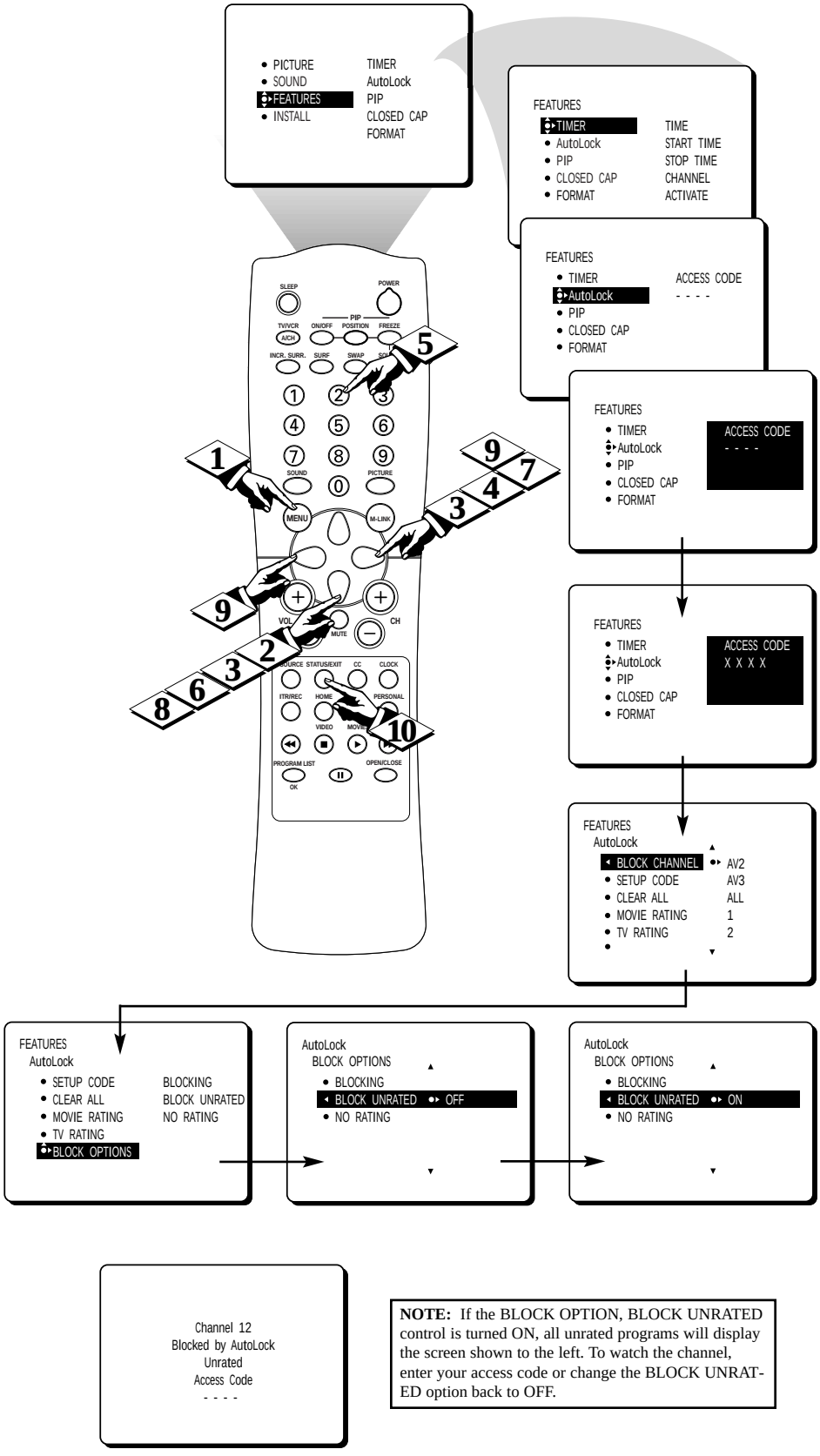
AUTOLOCK™ – BLOCKING UNRATED BROADCASTS

In addition to blocking specific ratings or channels, you may choose to block all programming that is unrated.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
7. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
8. **Press the CURSOR DOWN button** once to select BLOCK UNRATED.
9. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle BLOCK UNRATED ON or OFF.
10. **Press the STATUS/EXIT button** to remove the menu.

STOP



NOTE: If the BLOCK OPTION, BLOCK UNRATED control is turned ON, all unrated programs will display the screen shown to the left. To watch the channel, enter your access code or change the BLOCK UNRATED option back to OFF.

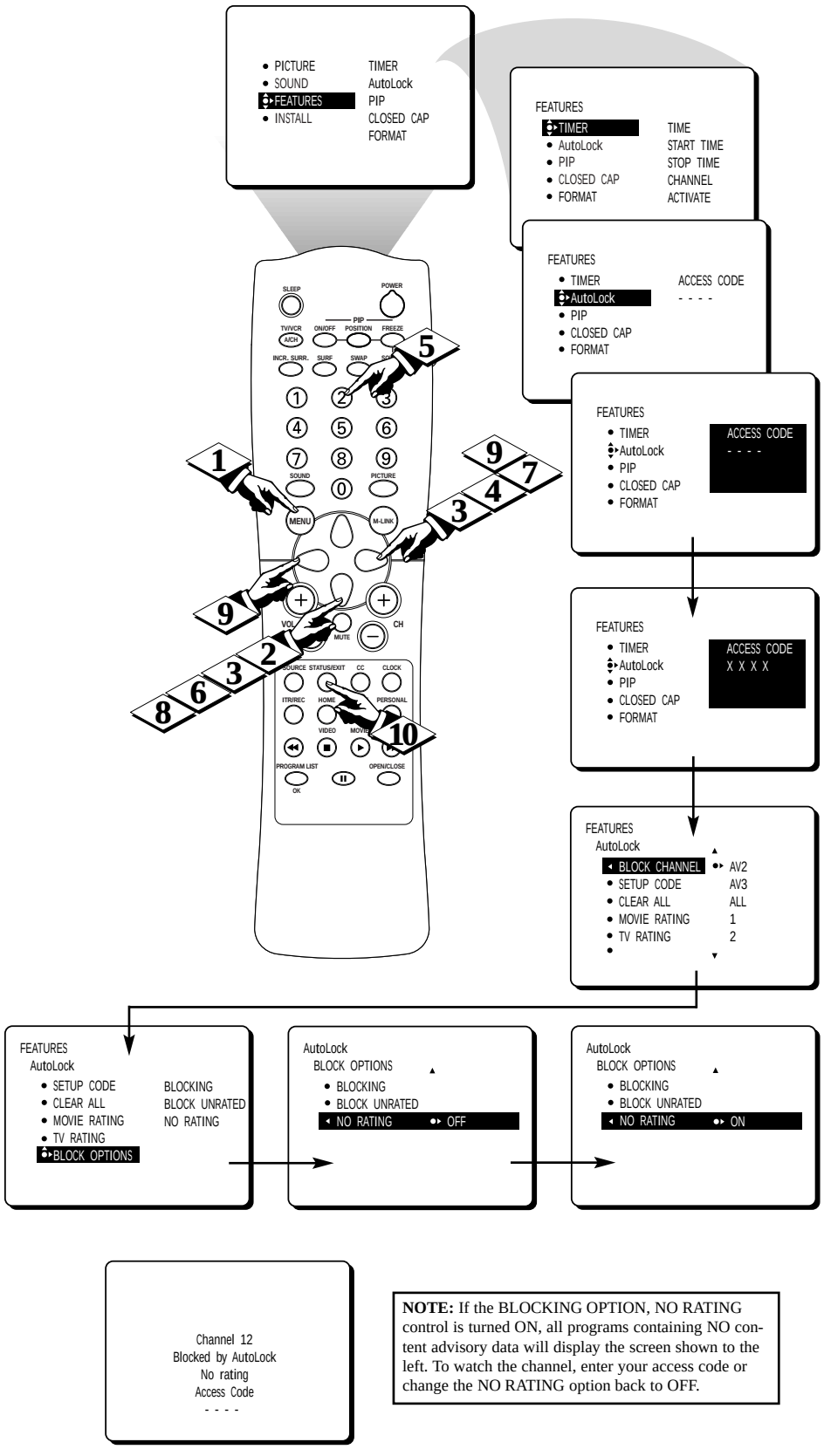
AUTOLOCK™ – BLOCKING BROADCASTS THAT HAVE NO RATING

Some programming is not encoded with content advisory data by the MPAA (Motion Picture Association of America) or the television broadcasters (see the explanation on page 18). To block such programming, follow these steps.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN** button twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** repeatedly until BLOCK OPTIONS is highlighted.
7. **Press the CURSOR RIGHT button** to enter the BLOCK OPTIONS menu. BLOCKING will be highlighted.
8. **Press the CURSOR DOWN button** twice to highlight NO RATING.
9. **Press the CURSOR RIGHT or CURSOR LEFT button** to toggle NO RATING ON or OFF.
10. **Press the STATUS/EXIT button** to remove the menu.

STOP



NOTE: If the BLOCKING OPTION, NO RATING control is turned ON, all programs containing NO content advisory data will display the screen shown to the left. To watch the channel, enter your access code or change the NO RATING option back to OFF.

AUTOLOCK™ – REVIEWING YOUR SETTINGS

To remind you which ratings you have blocked and which Block Options you have selected, a review screen is available to review your AutoLock™ settings. To access this screen follow the steps below.

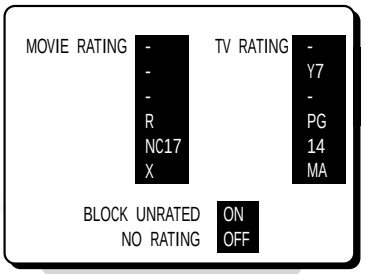
BEGIN

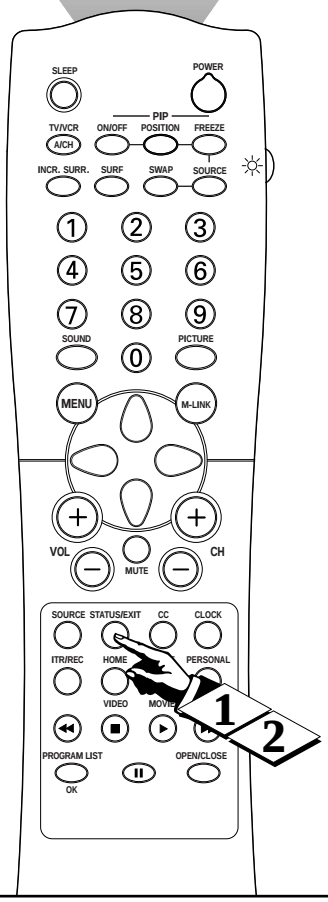
1 **Press the STATUS/EXIT button** on your remote control twice. Your AutoLock™ settings will appear on the screen.

NOTE: If you have blocked specific subratings, such as *V* for Violence in the TV-PG category, these blocked subratings will not appear in the review. The subratings however, are still blocked according to your selections.

2 After a few seconds, the settings will leave the screen automatically, or you can **press the STATUS/EXIT button** a third time to remove them from the screen.

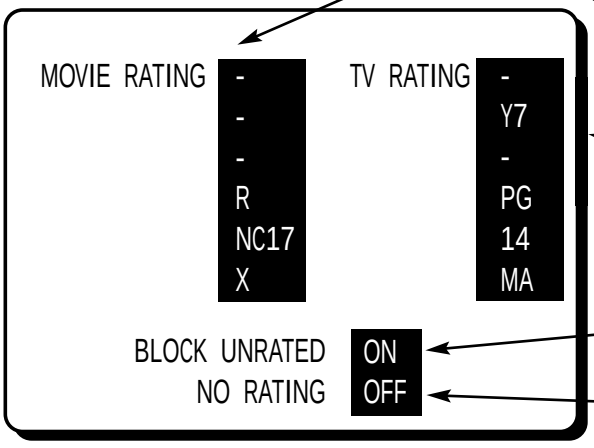
STOP





SMART HELP

Remember, the review screen will appear only if BLOCKING is set to ON. For details, see page 23.



MOVIE RATINGS – Shows all blocked movie ratings that were set within the MOVIE RATING feature. Some or all may be blocked at one time. **NOTE:** If a lower rating is blocked, higher ratings also will be blocked automatically (for example, if *R* is set to be blocked, *X* also will automatically be blocked).

TV RATINGS – Shows all blocked TV ratings that were set within the feature. Some or all may be blocked at one time. **NOTE:** If a lower rating is blocked, higher ratings also will be blocked automatically (for example, if *TV-14* is set to be blocked, *TV-MA* also will automatically be blocked). TV ratings also have subratings for Violence (V), Fantasy Violence (FV), Sexual Situations (S), Coarse Lanuage (L), and Suggestive Language (D). If the main rating is turned OFF but the subrating is turned ON, the program will be blocked; however, the rating will not appear within the AutoLock review menu.

BLOCK UNRATED – Shows ON or OFF, depending on the status of the BLOCK UNRATED feature.

BLOCK NO RATING – Shows ON or OFF, depending on the status of the BLOCK NO RATING feature.

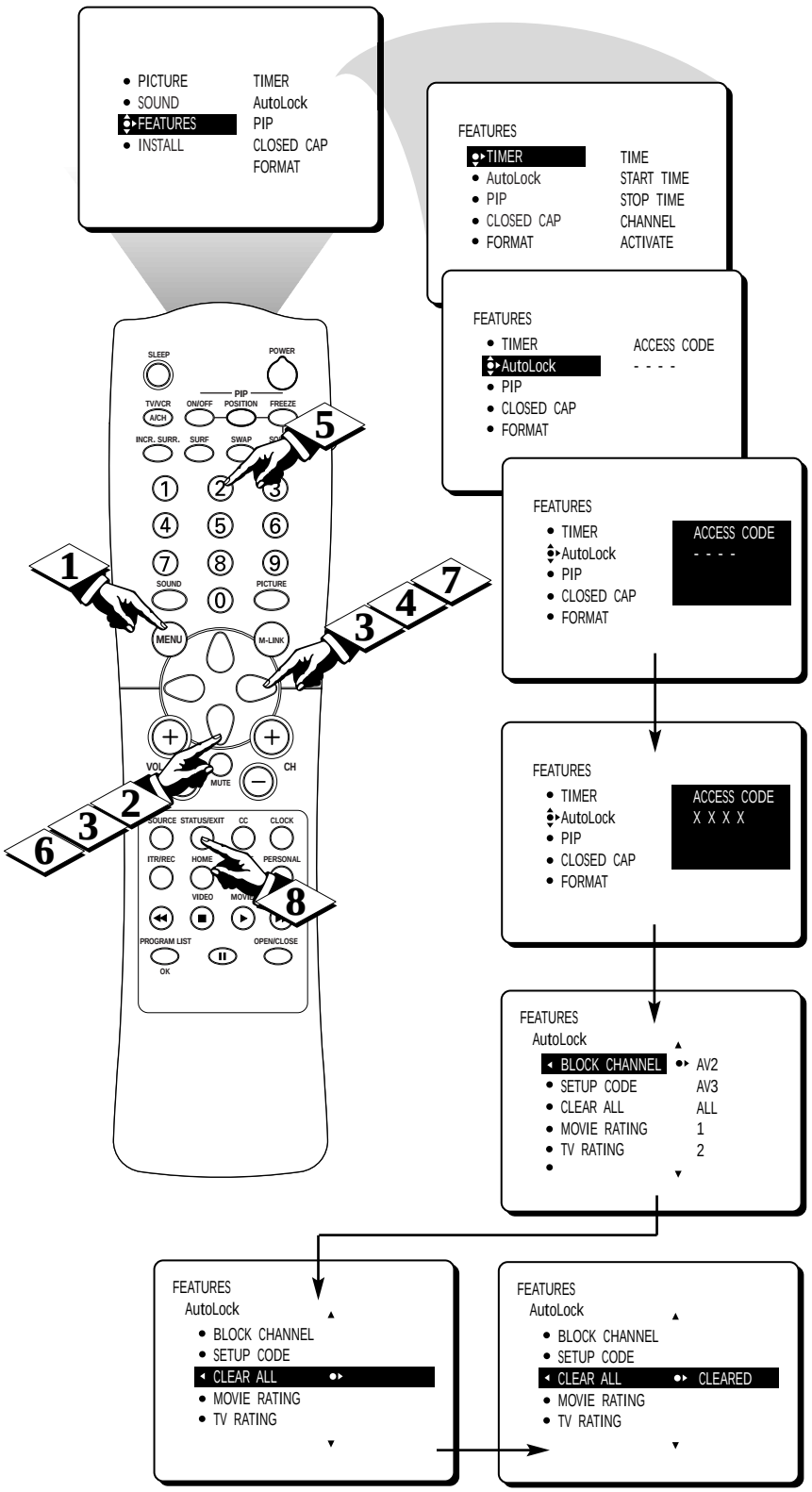
AUTOLOCK™ – VIEWING BLOCKED PROGRAMMING

Various onscreen messages will appear when someone tries to view blocked programming. The message is determined by how the current programming is blocked. You may view the blocked programming and turn OFF the AutoLock™ feature by clearing all blocking options or by entering your access code.

BEGIN

1. **Press the MENU button** on the remote to show the onscreen menu.
2. **Press the CURSOR DOWN** button twice to highlight FEATURES.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. Then **press the CURSOR DOWN button** once to highlight the AutoLock control.
4. **Press the CURSOR RIGHT button** again to highlight ACCESS CODE.
5. **Enter your four-digit ACCESS CODE** and the menu will move to the left with BLOCK CHANNEL highlighted.
6. **Press the CURSOR DOWN button** twice to highlight CLEAR ALL.
7. **Press the CURSOR RIGHT button** twice. The CLEAR ALL option will display the word *CLEARED*. All blocked channels and programming are now viewable.
8. **Press the STATUS/EXIT button** to remove the menu.

If you tune to a specific channel that has been blocked by BLOCK CHANNEL or any of the AutoLock™ RATING options, simply enter your four-digit access code to view the channel.
NOTE: this will unblock ALL channels until the TV is shut OFF. When powered back ON, all previously blocked channels will be blocked again.



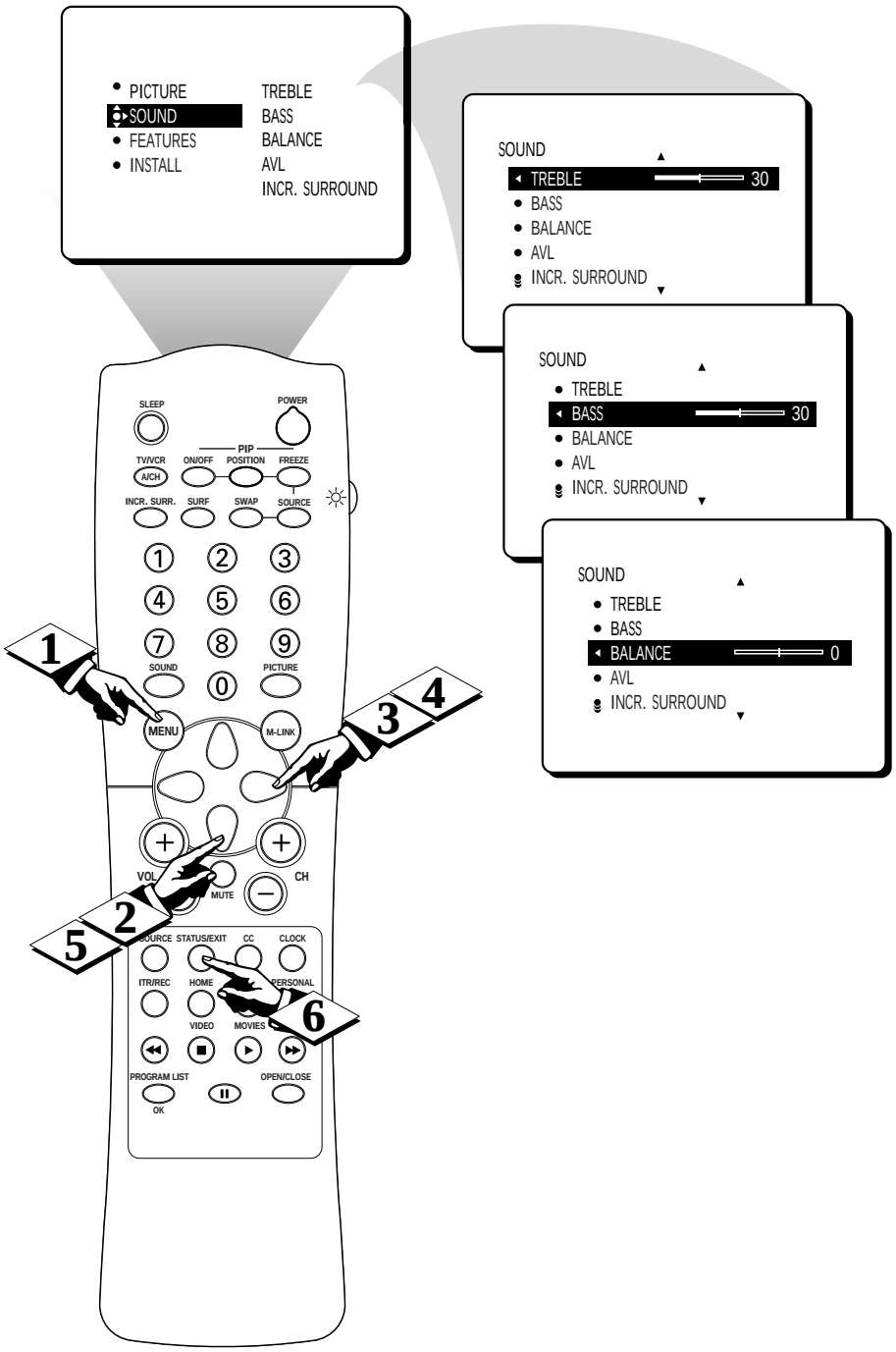
SOUND – ADJUSTING THE TREBLE, BASS, AND BALANCE

Besides the normal volume level control, your TV also has individual sound-adjustment controls. The TREBLE (high frequency), BASS (low frequency), and Speaker BALANCE may all be used to adjust the sound playback of TV programs.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Use the CURSOR RIGHT or CURSOR LEFT button** to adjust the TREBLE (high frequency) level of the television's sound.
5. After adjusting the TREBLE control, **press the CURSOR DOWN button** to select another sound adjustment: BASS or BALANCE. **Press the CURSOR RIGHT or CURSOR LEFT button** to adjust the selected control.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SMART HELP

Remember, when the bar scale is centered, speaker BALANCE is centered between the TV's left and right side speakers.

SOUND – ADJUSTING THE VOLUME

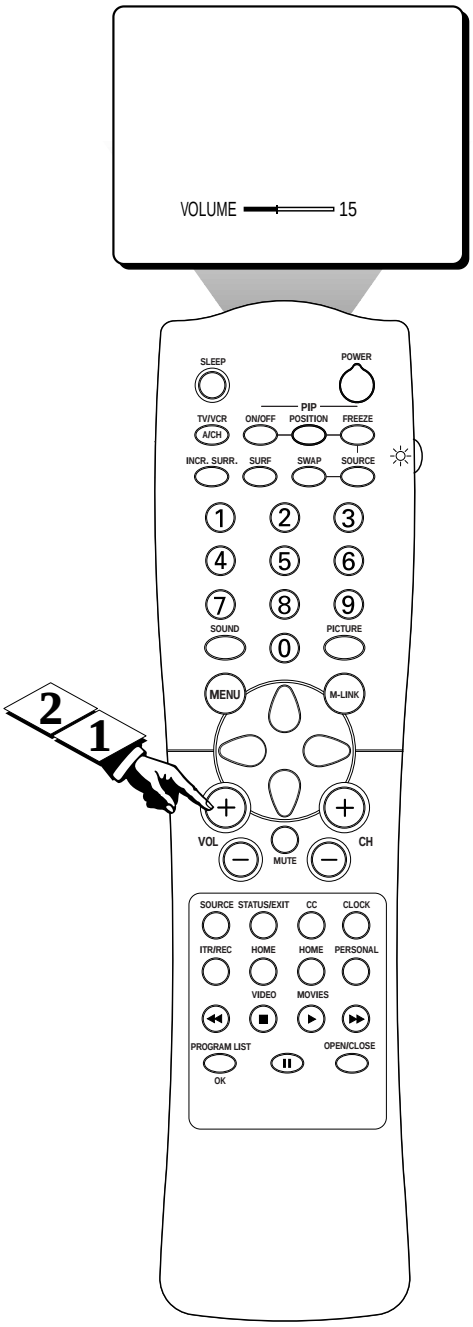
Use the Volume Bar control to see the TV's volume level settings on the TV screen. The Volume Bar will be seen each time the VOLUME buttons (on the TV or remote control) are pressed.

BEGIN

1. **Press the VOLUME (+) or (–) button** on the remote control to show the VOLUME bar display on the screen.

2. **Press the VOLUME (+) or (–) button** to adjust the television's sound level.

STOP



SMART HELP

Try it out. Press the VOL (+) and (–) buttons. The VOLUME bar will appear near the bottom center of the screen.

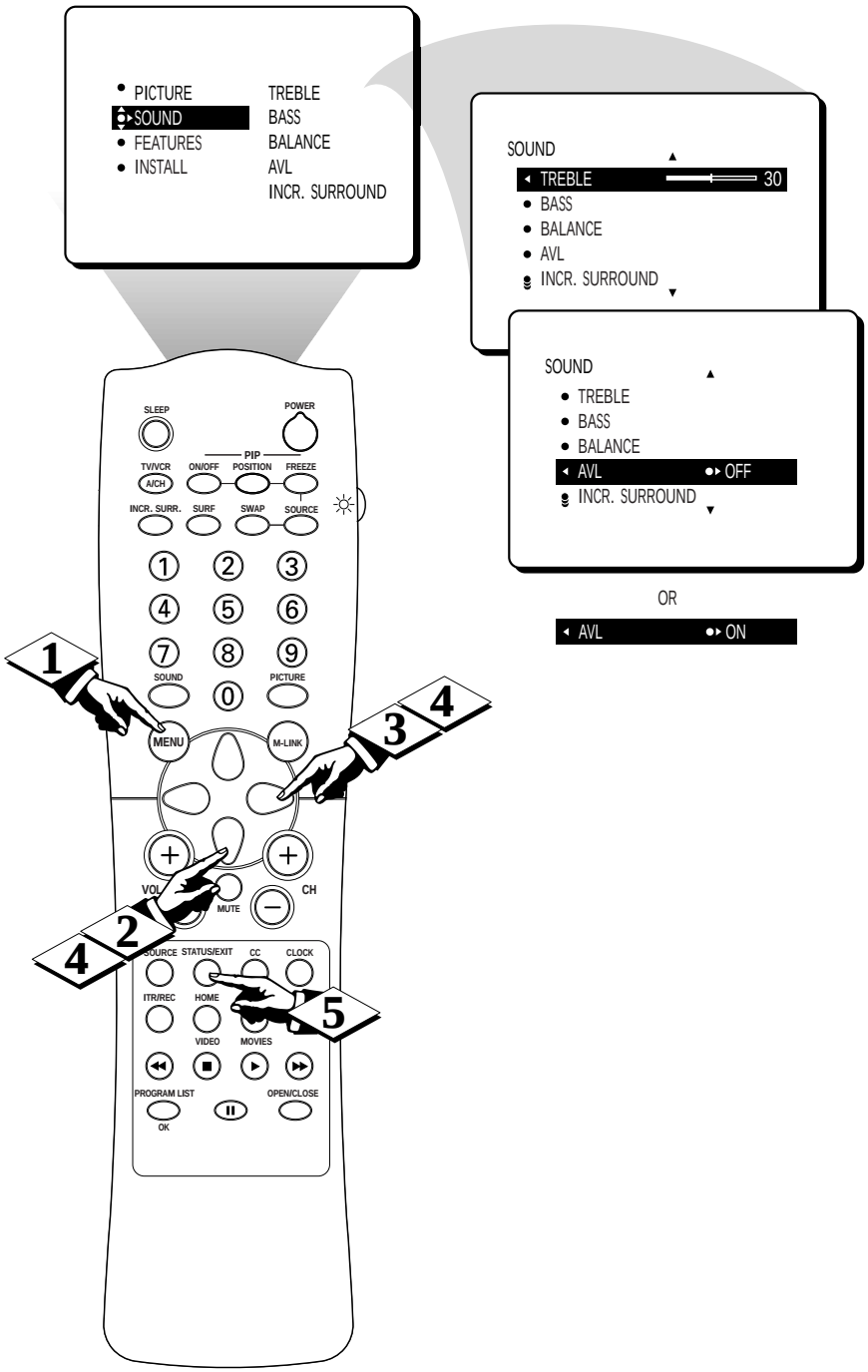
SOUND – USING THE AVL (AUDIO VOLUME LEVELER)

In most cases, the volume levels coming from broadcast programming or commercials are never the same. With the AVL (Audio Volume Leveler) control turned ON, you can have the TV level out sound that is being heard. This makes for a more consistent sound by reducing the peaks and valleys that occur during program changes or commercial breaks. To turn the AVL ON, follow these steps.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left. TREBLE will be highlighted and an adjustment bar will be shown to the right.
4. **Press the CURSOR DOWN button** repeatedly until AVL is highlighted. Then **press the CURSOR RIGHT or CURSOR LEFT button** to toggle AVL ON or OFF.
5. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SOUND – USING INCREDIBLE SURROUND

The Incredible Surround feature adds greater depth and dimension to both monaural (MONO) and stereo TV sound. With the control set to INCR. SURROUND (Incredible Surround), the TV's speakers can add even wider sound separation to normal broadcasts.

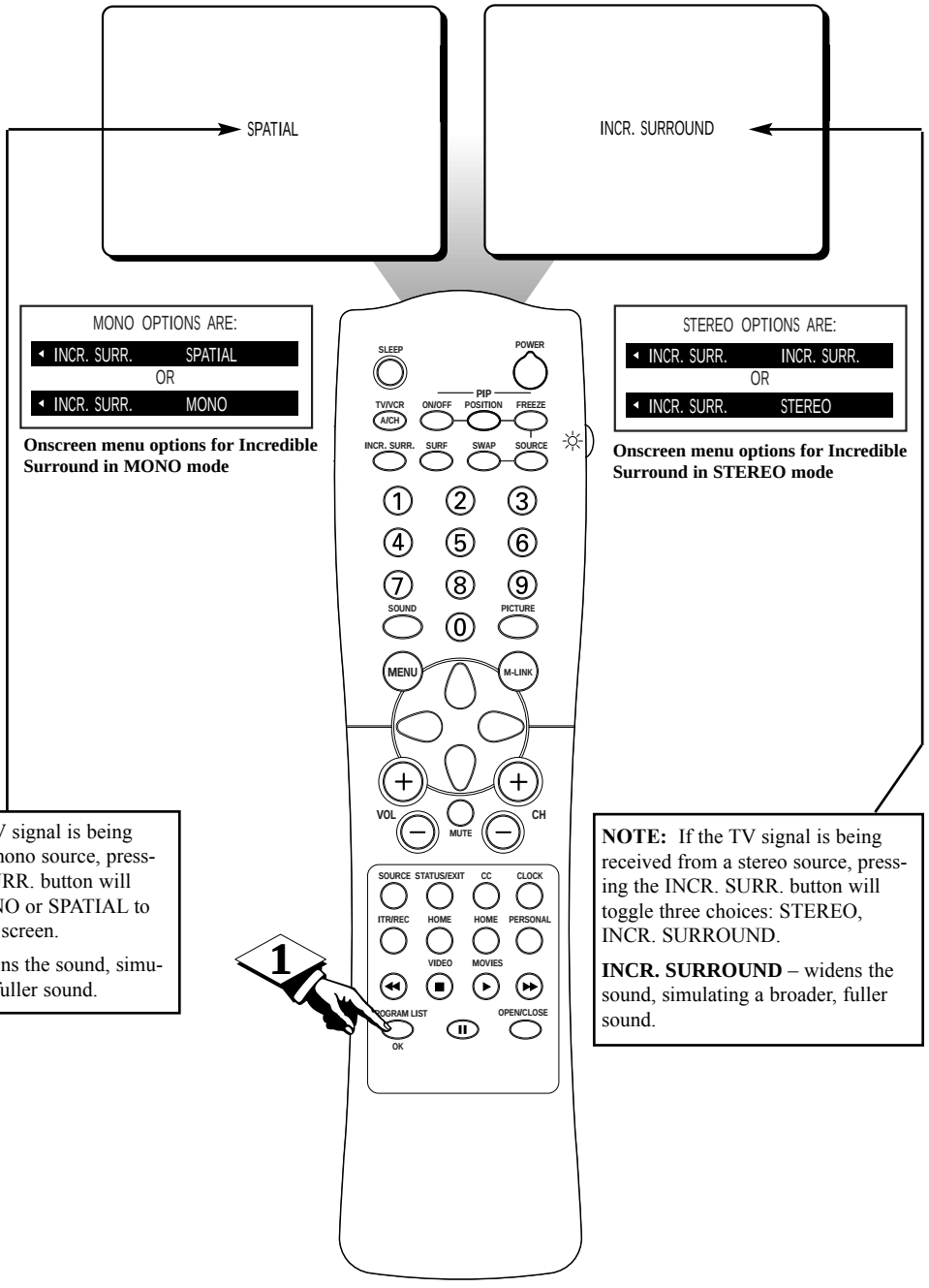
BEGIN

1 **Press the INCR. SURR. button** on the remote control to turn the Incredible Surround feature ON.

When the TV signal is being received in Stereo, pressing this button will give you these options: STEREO or INCR. SURROUND.

When the TV signal is in MONO, the choices displayed will read SPATIAL or MONO.

STOP



Onscreen menu options for Incredible Surround in MONO mode

Onscreen menu options for Incredible Surround in STEREO mode

NOTE: If the TV signal is being received from a mono source, pressing the INCR. SURR. button will cause either MONO or SPATIAL to appear on the the screen.

SPATIAL – widens the sound, simulating a broader, fuller sound.

NOTE: If the TV signal is being received from a stereo source, pressing the INCR. SURR. button will toggle three choices: STEREO, INCR. SURROUND.

INCR. SURROUND – widens the sound, simulating a broader, fuller sound.

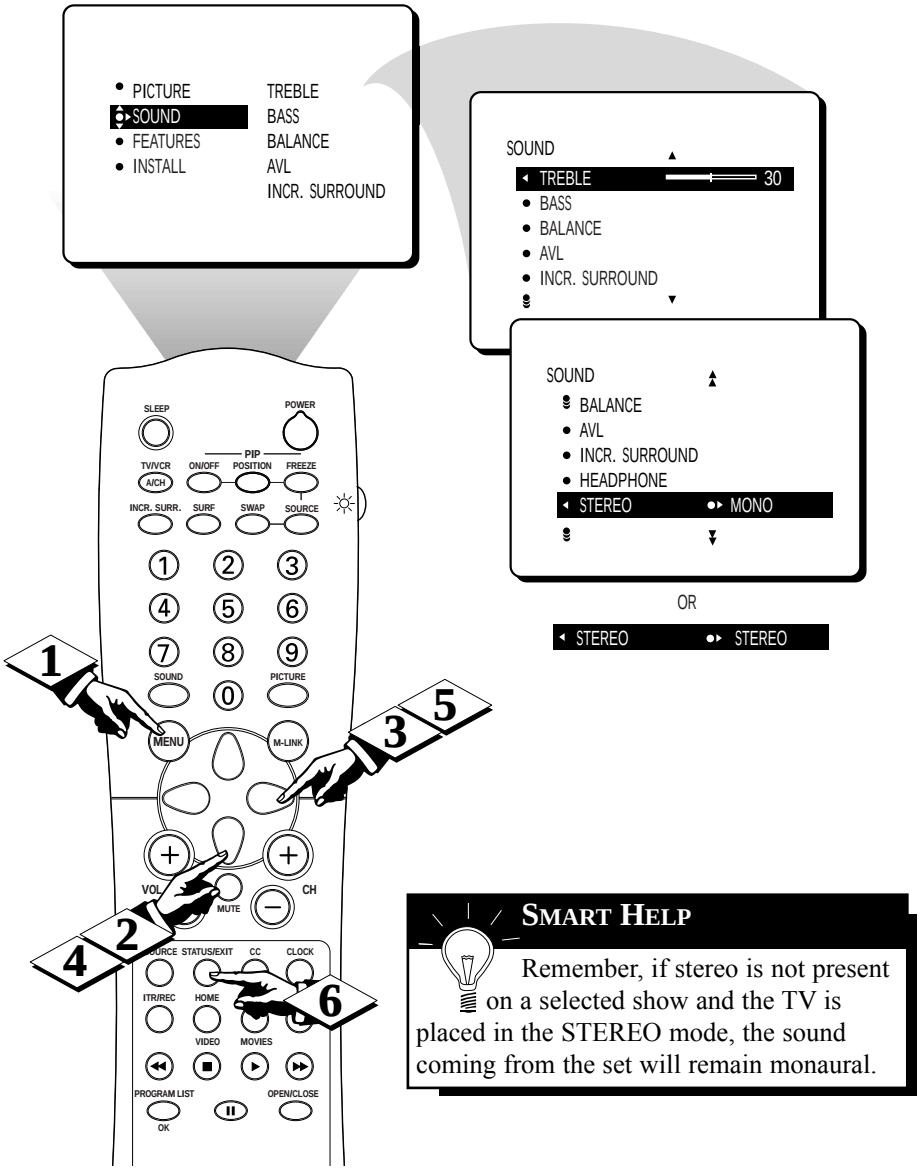
SOUND – SETTING THE TV FOR STEREO AND SAP

You can receive broadcast stereo TV programs. The TV has both an amplifier and twin speakers through which the stereo sound can be heard.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight the SOUND menu.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button repeatedly** until the STEREO control is highlighted.
5. **Press the CURSOR LEFT or CURSOR RIGHT button** to select STEREO or MONO. When STEREO has been selected, the television will reproduce any stereo broadcast signal it receives.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



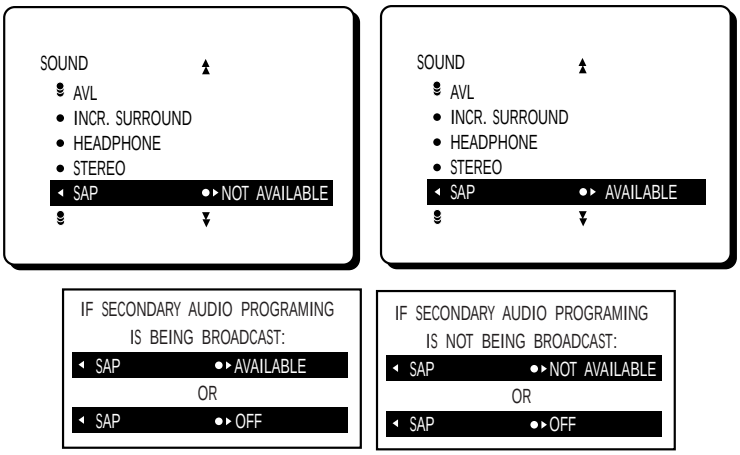
SMART HELP

Remember, if stereo is not present on a selected show and the TV is placed in the STEREO mode, the sound coming from the set will remain monaural.

SECOND AUDIO PROGRAM (SAP)

An SAP is an additional part of the stereo broadcast system. Sent as a third audio channel, an SAP can be heard apart from the current TV program sound. TV stations are free to use SAP for any number of purposes.

If an SAP signal is not present with a selected program, the SAP option cannot be selected. Also, if SAP is selected on a channel (with SAP) and you select another channel, when you return to the original channel, SAP will be OFF. You will have to reselect the SAP feature.



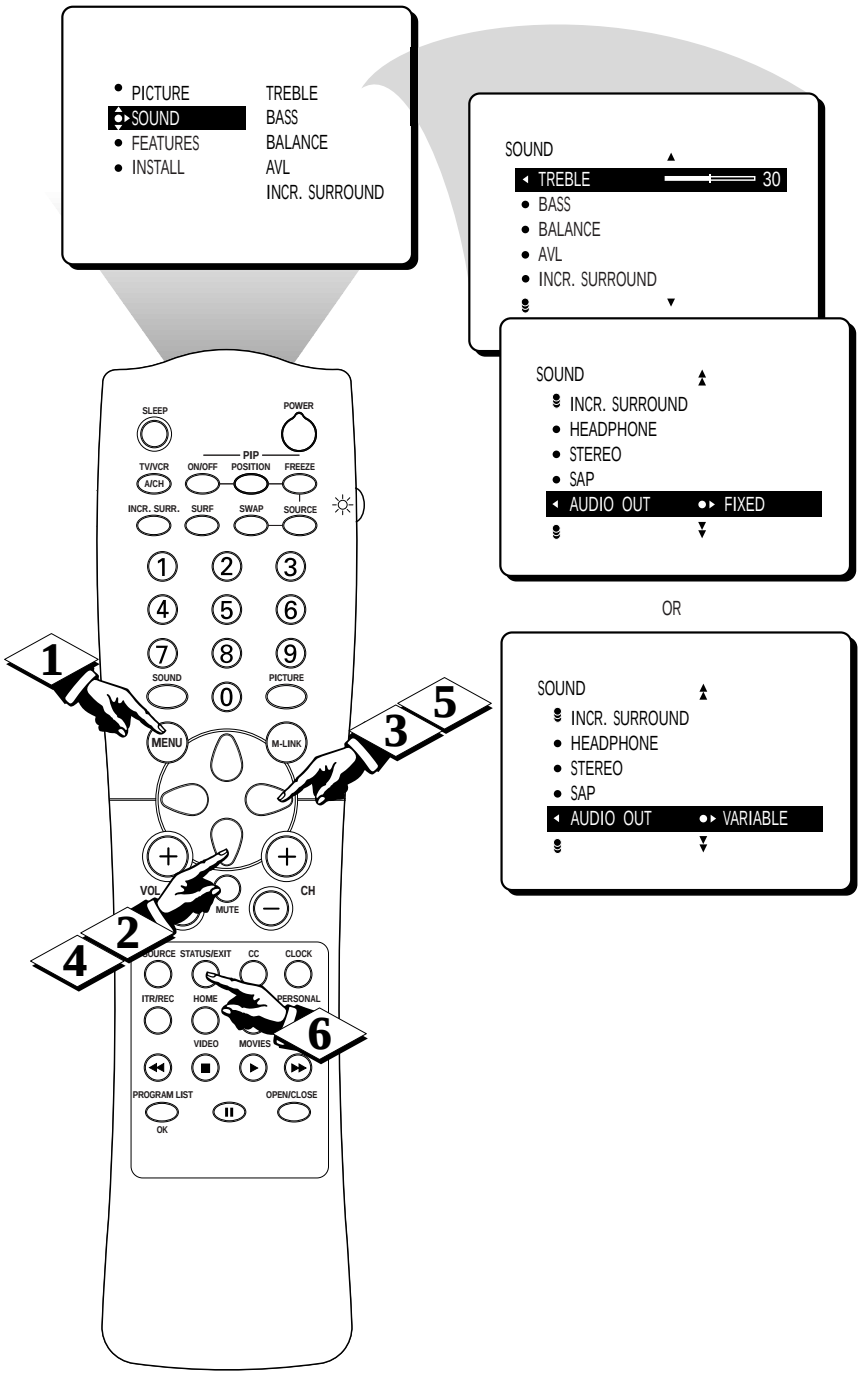
SOUND – SETTING THE AUDIO OUT CONTROL

If you have connected the TV's AUDIO OUTPUT jacks to the AUDIO INPUT jacks on a stereo receiver, set AUDIO OUT to either VARIABLE or FIXED to determine whether you adjust the volume at the stereo or at the TV. If you select VARIABLE, change the volume at the TV using the TV's remote control. If you select FIXED, adjust the volume at the stereo using the stereo's controls. To select FIXED or VARIABLE, follow these steps.

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** once to highlight SOUND.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** repeatedly until AUDIO OUT is highlighted.
5. **Press the CURSOR LEFT or CURSOR RIGHT button** to set the AUDIO OUT to VARIABLE or FIXED.
6. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SOUND – USING THE TV SPEAKER CONTROL AND AUDIO OUTPUT JACKS

Would you like to hear TV programs through your audio hi-fi system? The TV's Audio Output jacks and TV Speaker ON/OFF control work together to offer you this TV sound option.

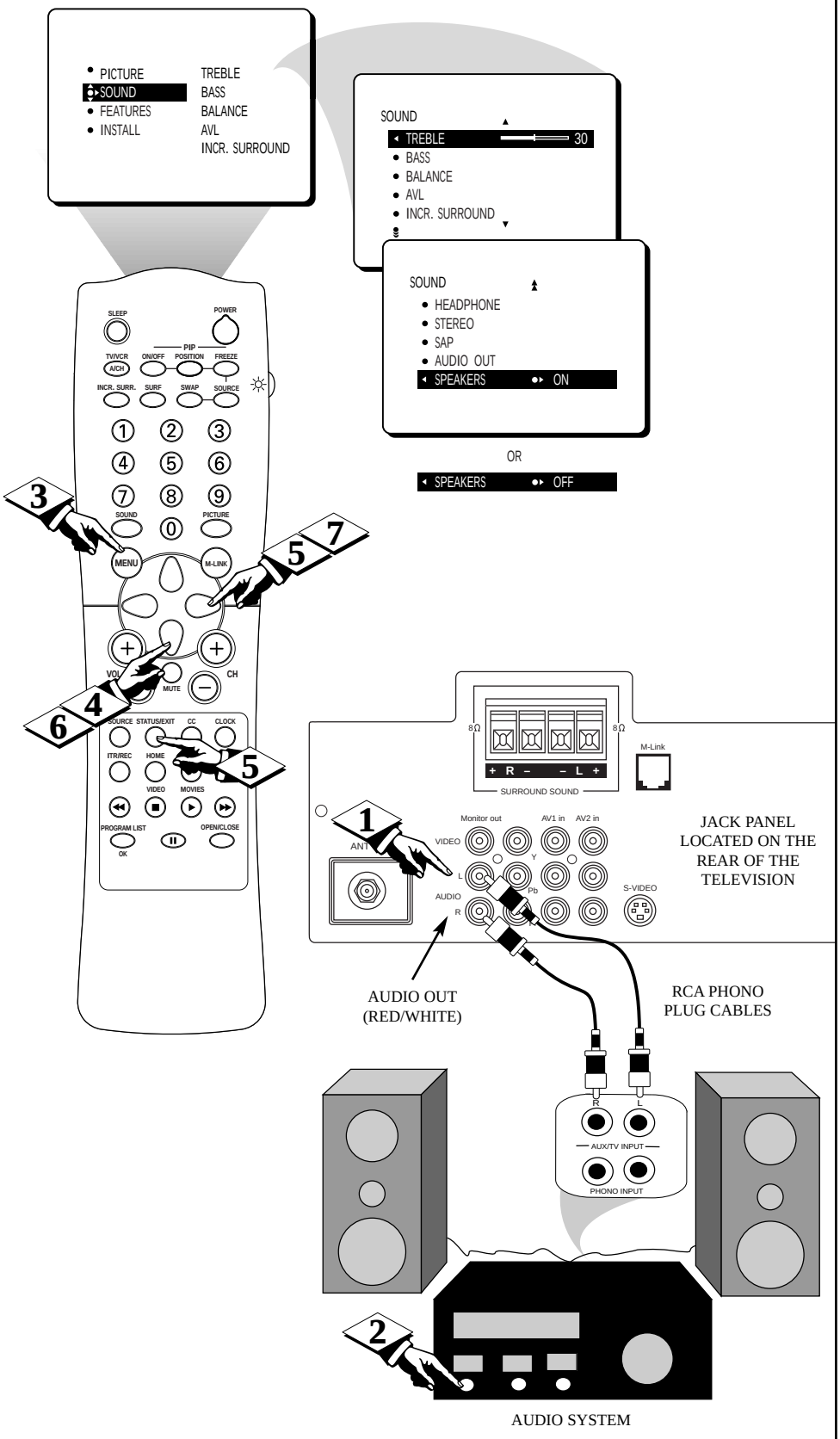
BEGIN

1. **Connect the R(ight) and L(eft) AUDIO OUT** jacks on the TV to the R and L audio input jacks on your amplifier or sound system. Set the audio system's volume to a normal listening level.
2. **Turn the TV and audio system ON.** You can now adjust the sound level coming from the audio system with the VOLUME (+) or (–) buttons on the TV or remote control.

To hear the TV sound from only the audio system speakers:

3. **Press the MENU button** on the remote control to show the onscreen menu.
4. **Press the CURSOR DOWN button** once to highlight SOUND.
5. **Press the CURSOR RIGHT button** and the menu will shift to the left.
6. **Press the CURSOR DOWN button** repeatedly until the SPEAKERS control is highlighted.
7. **Press the CURSOR RIGHT or CURSOR LEFT button** to turn the television's speakers ON or OFF. With the SPEAKERS control set to OFF, you should hear the TV sound coming only from the audio system speakers.

STOP



SMART HELP

Remember, the audio system may have to be in AUX(iliary) mode to play sound from the TV.

SOUND – USING THE SURROUND SOUND EXTERNAL SPEAKER CONNECTIONS

By adding optional external speakers to the TV's sound system, you can create the feeling of reflected sound that surrounds you at a movie theater or concert hall.

BEGIN

1. **Connect both external speakers** to the speaker wire terminals on the TV.

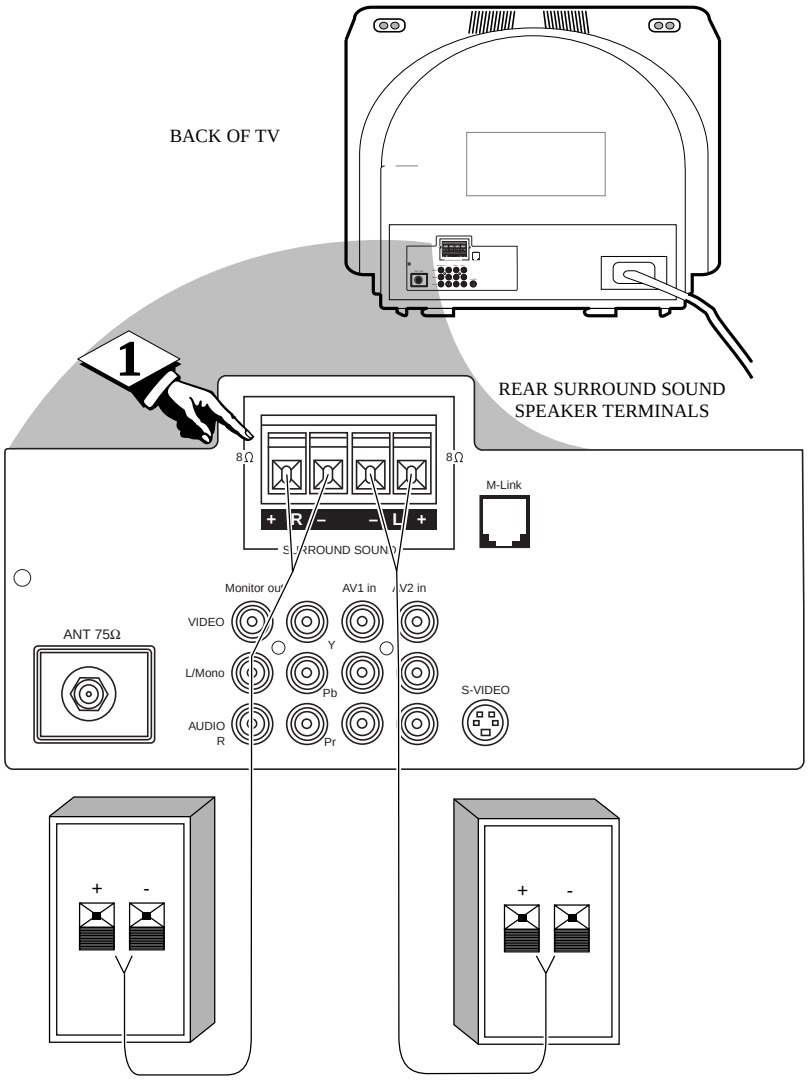
   Recommended speakers: 8 ohm, 15 watt minimum. Be sure the (+) and (–) speaker wires are connected to the correct R(ight) and L(eft) speaker terminals on the TV.

2. **Place the speakers** so that the viewing area is between the TV and the rear surround speakers. (See overhead view drawing.)

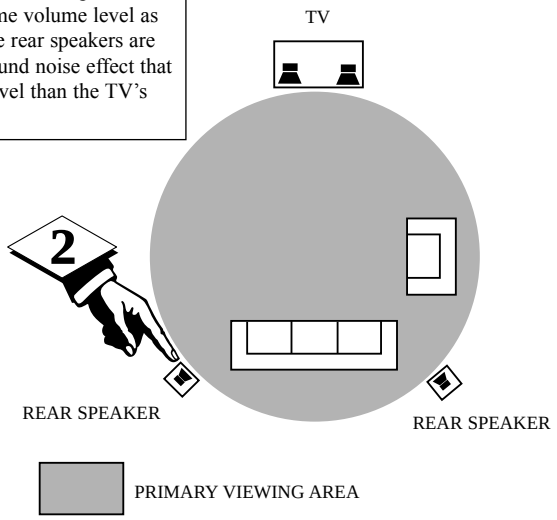
3. **Turn the TV and the STEREO control ON.**

   After setup, whenever a stereo signal is received, the audio will be heard in Surround Sound.

STOP



NOTE: The rear Surround Sound speakers will not be heard at the same volume level as the front TV speakers. The rear speakers are intended to give a background noise effect that requires a lower volume level than the TV's front speakers.



SMART HELP

Remember, Surround Sound will not work with only one speaker connected, nor with a monaural audio source supplied, unless the Incredible Surround feature is turned ON (see page 31).

SOUND – USING THE AUDIO/VIDEO INPUT JACKS

AUDIO/VIDEO INPUTS

The TV's audio/video input jacks are for direct picture and sound connections between the TV and a VCR (or similar device) that has audio/video output jacks.

BEGIN

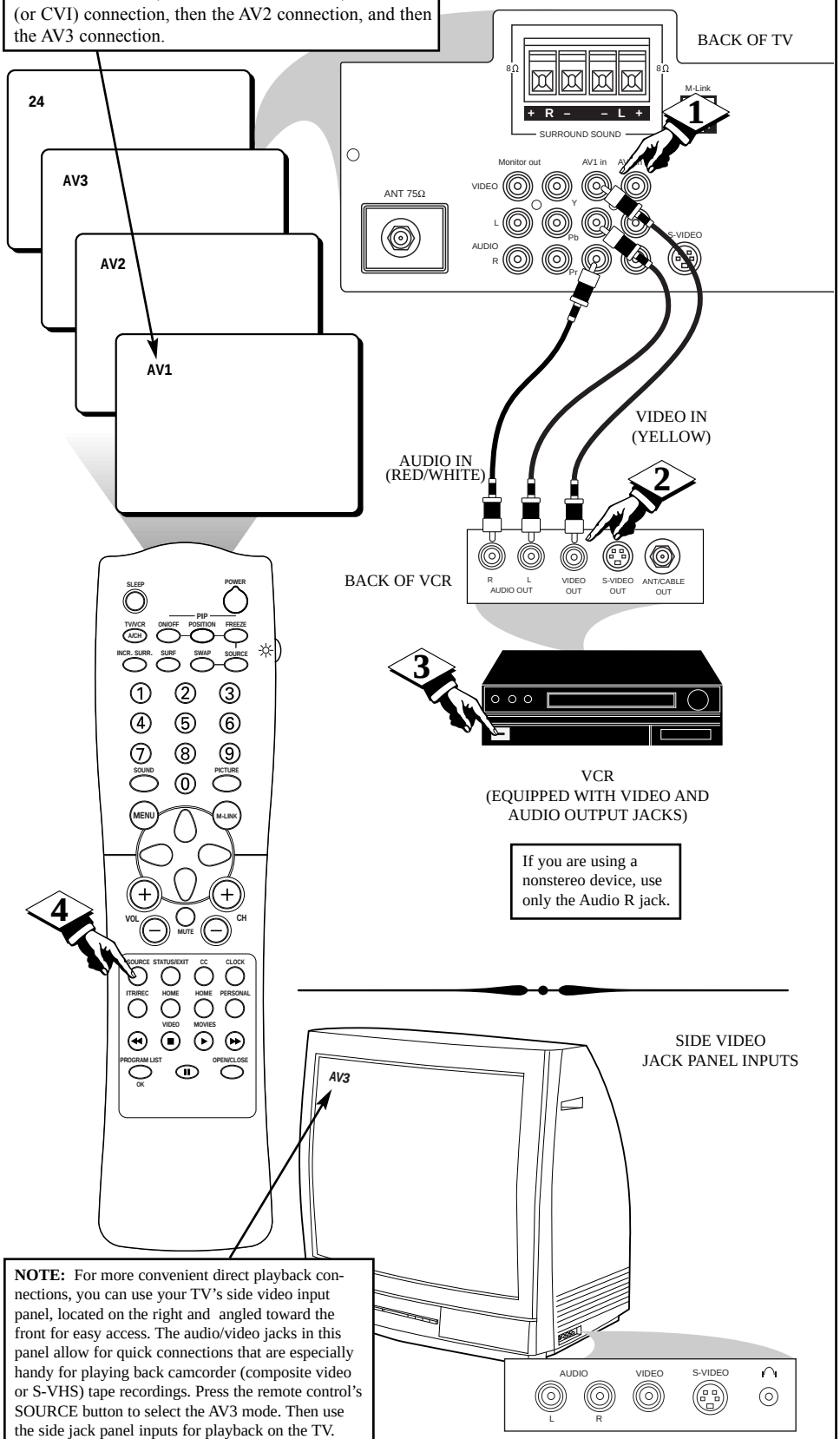
1. **Connect the VIDEO (yellow) cable** to the VIDEO AV1 jack on the back of the TV. Then **connect the AUDIO (red and white) cables** to the AUDIO (left and right) AV1 jacks on the rear of the TV.
2. **Connect the VIDEO (yellow) cable** to the VIDEO OUT jack on the back of the VCR. Then **connect the AUDIO (red and white) cables** to the AUDIO (left and right) OUT jacks on the rear of the VCR.
3. **Turn the VCR and the TV ON.**
4. **Press the SOURCE button** on the remote control until the AV1 source is selected. After AV1 appears, insert a prerecorded tape into the VCR and press the PLAY button to view the tape on the television. If AV1 did not appear, perform steps 5–9.

NOTE: the actions described in steps 5–9 are not illustrated on this page.

5. **If AV1 did not appear onscreen as one of the choices available to you by pressing the SOURCE button, press the M Link button** on the remote control to display the M-Link™ onscreen menu..
6. **Press the CURSOR RIGHT or CURSOR LEFT button** to highlight CVI.
7. **Press the CURSOR UP button** to toggle from CVI to AV1.
8. **Press the STATUS/EXIT button** to remove the M-Link™ menu from the screen.
9. **Press the SOURCE button** to tune the AV1 source. You are now ready to view the VCR tape on the TV.

STOP

NOTE: Repeatedly pressing the SOURCE button on the remote control will toggle the picture source from the current channel, the last viewed channel, then AV1 (or CVI) connection, then the AV2 connection, and then the AV3 connection.



NOTE: For more convenient direct playback connections, you can use your TV's side video input panel, located on the right and angled toward the front for easy access. The audio/video jacks in this panel allow for quick connections that are especially handy for playing back camcorder (composite video or S-VHS) tape recordings. Press the remote control's SOURCE button to select the AV3 mode. Then use the side jack panel inputs for playback on the TV.

SOUND – USING THE AUDIO/VIDEO INPUT JACKS (CONT'D)

S-VIDEO INPUT

The S(uper)-Video connection on the rear of the TV can provide you with better picture detail and clarity for the playback of accessory sources such as DBS (digital broadcast satellite), DVD (digital video discs), video games, and S-VHS VCR (video cassette recorder) tapes than the normal antenna picture connections.

***NOTE:** The accessory device must have an S-VIDEO OUT(put) jack in order for you to complete the connection on this page.*

BEGIN

1. **Connect the S-VIDEO CABLE** to the S-VIDEO input jack on the rear of the television. Then **connect the AUDIO (red and white) cables** to the AUDIO AV2 jacks on the rear of the TV.
2. **Connect the S-VIDEO CABLE** to the S-VIDEO output jack on the accessory device. Then **connect the red and white AUDIO cables** to the AUDIO (left and right) output jacks on the rear of the accessory device.
3. **Turn the accessory device ON.**
4. **Press the AV button** on the remote control to tune the AV2 channel. You are now ready to view the tape or disc on the TV.

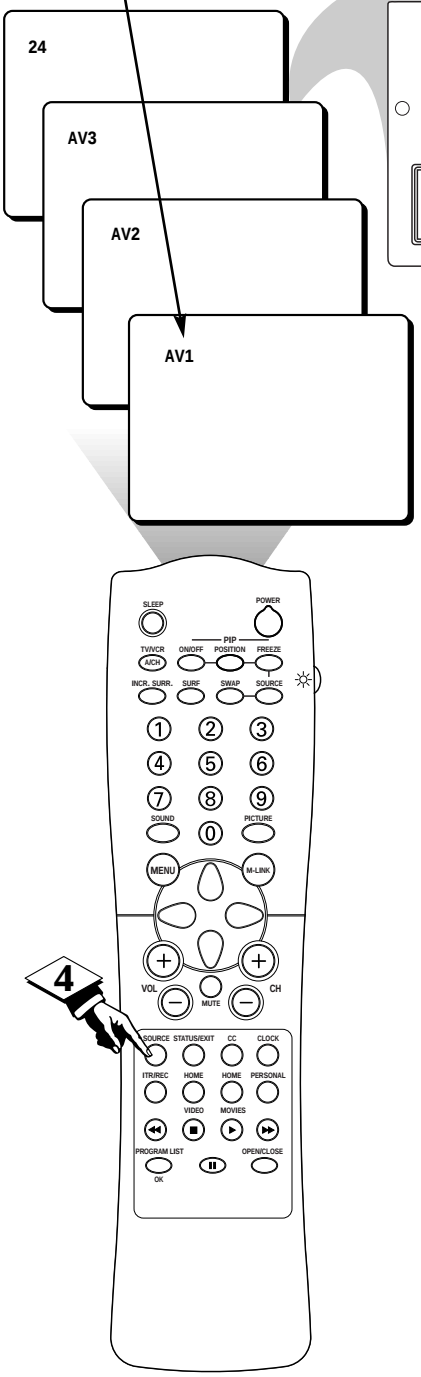
STOP

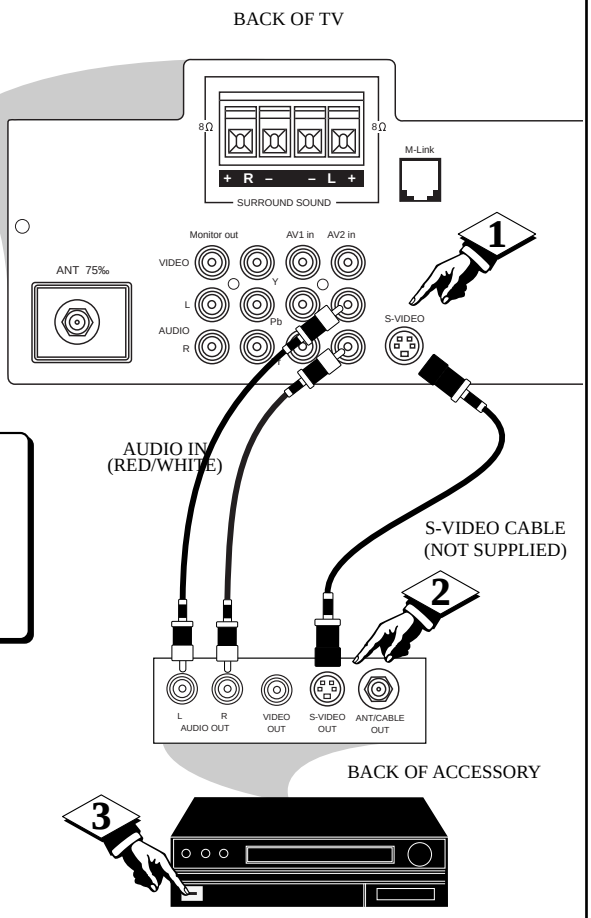
SMART HELP

The S-VIDEO and VIDEO AV2 in(puts) are in parallel. The S-VIDEO input is dominant when in use. If separate video signals are connected to the S-VIDEO and VIDEO AV2 in(puts), the signal from the VIDEO AV2 in(put) will not be usable.

If you have added AV2 in(puts) to the TV's channel memory, just press the CHANNEL (+) or (–) button until the AV2 in(puts) (channel) mode is selected.

NOTE: Repeatedly pressing the SOURCE button on the remote will toggle the picture source from the current channel, the last viewed channel, then the AV1 (or CVI) connection, the AV2 connection, and the AV3 connection.





DBS, DVD, Video Game, etc.
(EQUIPPED WITH S-VIDEO AND AUDIO OUTPUT JACKS)

NOTE: If you are using a nonstereo device, use only the Audio R jack.

SOUND – USING THE AUDIO/VIDEO INPUT JACKS (CONT'D)

COMPONENT VIDEO INPUTS

Component Video inputs provide for the highest possible color and picture resolution in the playback of digital signal source material, such as with DVD players. The color difference signals (Pb, Pr) and the luminance (Y) signal are connected and received separately, which allows for improved color bandwidth information (not possible when using composite video or S-Video connections).

BEGIN

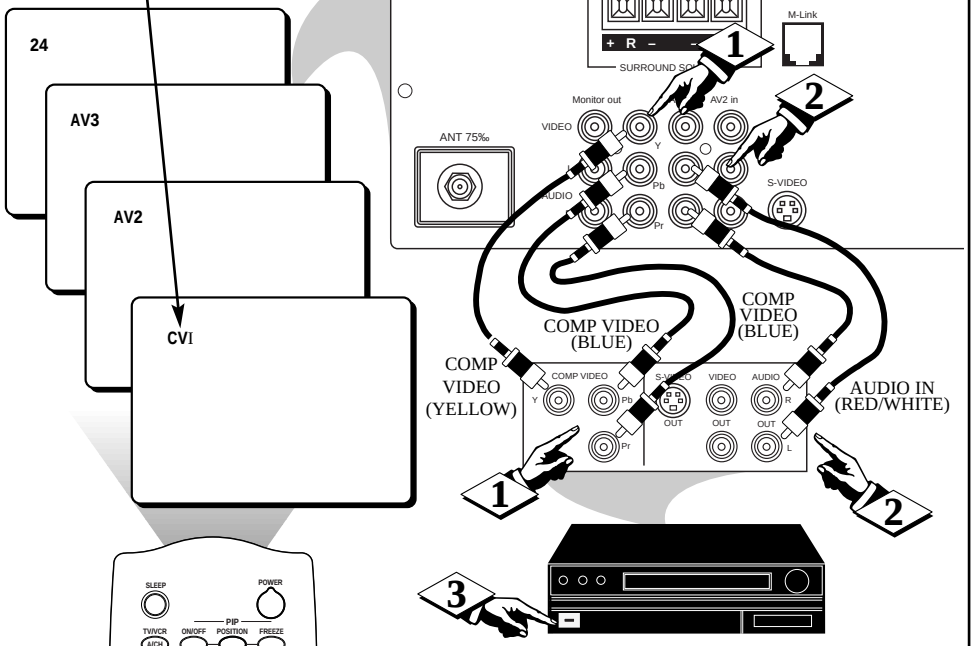
1. **Connect the Component (Y, Pb, Pr) Video OUT** jacks from the DVD player (or similar device) to the (Y, Pb, Pr) in(put) jacks on the TV.
2. **Connect the red and white AUDIO CABLES** to the Audio (left and right) output jacks on the rear of the accessory device to the Audio (L and R) AV1 in(put) jacks on the TV.
3. **Turn the TV and the DVD (or digital accessory device) ON.**
4. **Press the SOURCE button** on the remote control until the CVI source is selected. After CVI appears, insert a disc into the DVD (or other digital accessory device) and press the PLAY button to view the disc on the television. If CVI did not appear, perform steps 5–9.

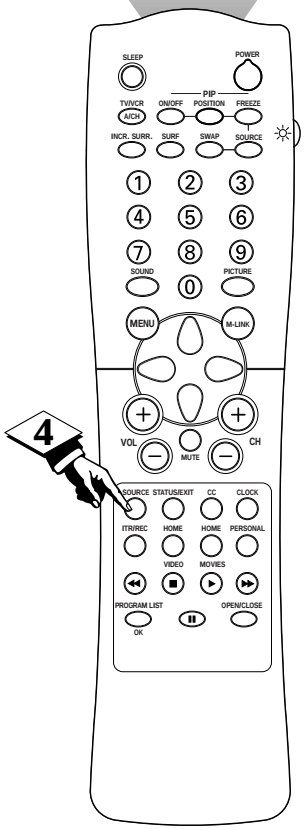
NOTE: The actions described in steps 5–9 are not illustrated on this page.

5. **If CVI did not appear onscreen as one of the choices available to you by pressing the SOURCE button, press the M Link button** on the remote control to display the M-Link™ onscreen menu.
6. **Press the CURSOR RIGHT or CURSOR LEFT button** to highlight AV1.
7. **Press the CURSOR UP button** to toggle from AV1 to CVI.
8. **Press the STATUS/EXIT button** to remove the M-Link™ menu from the screen.
9. **Press the SOURCE button** to tune to the CVI source. You are now ready to view the disc on the TV.

STOP

NOTE: Repeatedly pressing the SOURCE button on the remote will toggle the picture source from the current channel, the last viewed channel, then the CVI (or AV1) connection, the AV2 connection, and the AV3 connection. Use CVI for Component Video Connections.





BACK OF DIGITAL ACCESSORY

DBS, DVD, Video Game, etc.
(EQUIPPED WITH COMPONENT VIDEO OUTPUTS AND AUDIO OUTPUT JACKS)

NOTE: Optional video/audio cables (with standard RCA plug connectors) are available to complete your component video input jack connections. Contact your dealer or our Parts Information Center (1-800-851-8885) to order any optional accessories.

SMART HELP

The description for the component video connectors may differ depending on the DVD player or accessory digital source equipment used (for example, Y, Pb, Pr; Y, B–Y, R–Y; Y, Cr, Cb). Although abbreviations and terms may vary, the letters *b* and *r* stand for the blue and red color component signal connectors, and *Y* indicates the luminance signal. Refer to your DVD or digital accessory owner's manual for definitions and connection details.

REMOTE CONTROL – USING AUTOPICTURE™

Whether you're watching a movie or a video game, your TV has automatic video control settings that will match with your current program source or content. AutoPicture™ quickly resets your TV's video controls for a number of different types of programs and viewing conditions that you may have in your home. The Movies, Sports, Weak Signal, and Multmedia AutoPicture™ controls have been preset at the factory to automatically adjust the TV's brightness, color, picture, sharpness, tint, and color temperature levels. The Personal AutoPicture™ settings are the ones that you made through the PICTURE options within the onscreen menu.

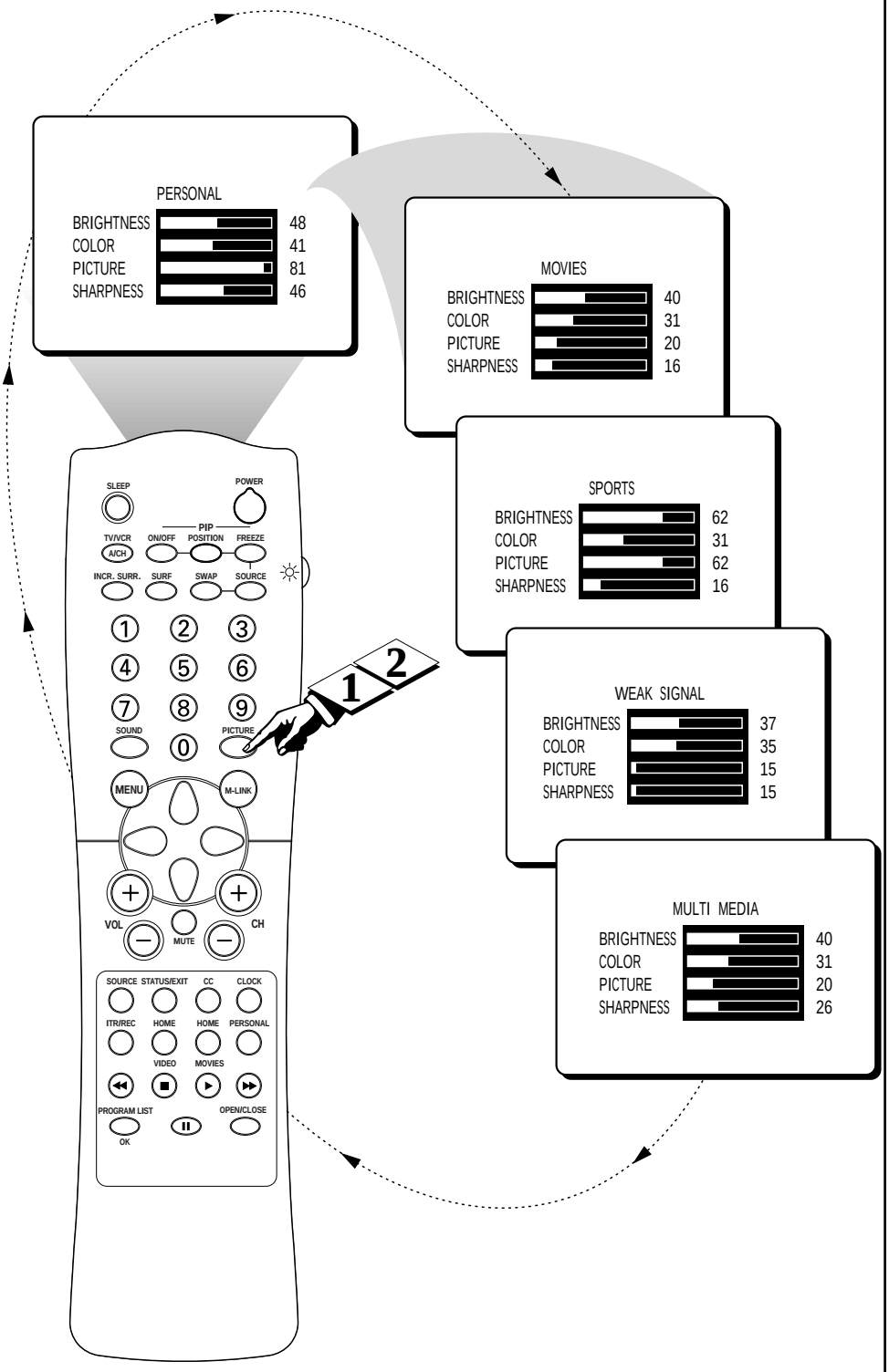
BEGIN

1 **Press the PICTURE button** on the remote control. The current AutoPicture™ setting will appear in the middle of the screen.

2 **Press the PICTURE button repeatedly** to select either PERSONAL, MOVIES, SPORTS, WEAK SIGNAL, or MULTI MEDIA picture settings.

NOTE: The PERSONAL setting and the PICTURE options within the onscreen menu are the same. This is the only option in AutoPicture™ that can be changed. To adjust these settings, use the PICTURE options within the onscreen menu. All other settings are set up at the factory during production and cannot be adjusted.

STOP



REMOTE CONTROL – USING AUTOSOUND™

AutoSound™ allows you to select from three factory-set controls and a personal control that you set according to your own preferences through the onscreen Sound menu. The three factory-set controls (Voice, Music, and Theatre) enable you to tailor the TV sound so as to enhance the particular program you are watching. Follow these steps to select any of the options.

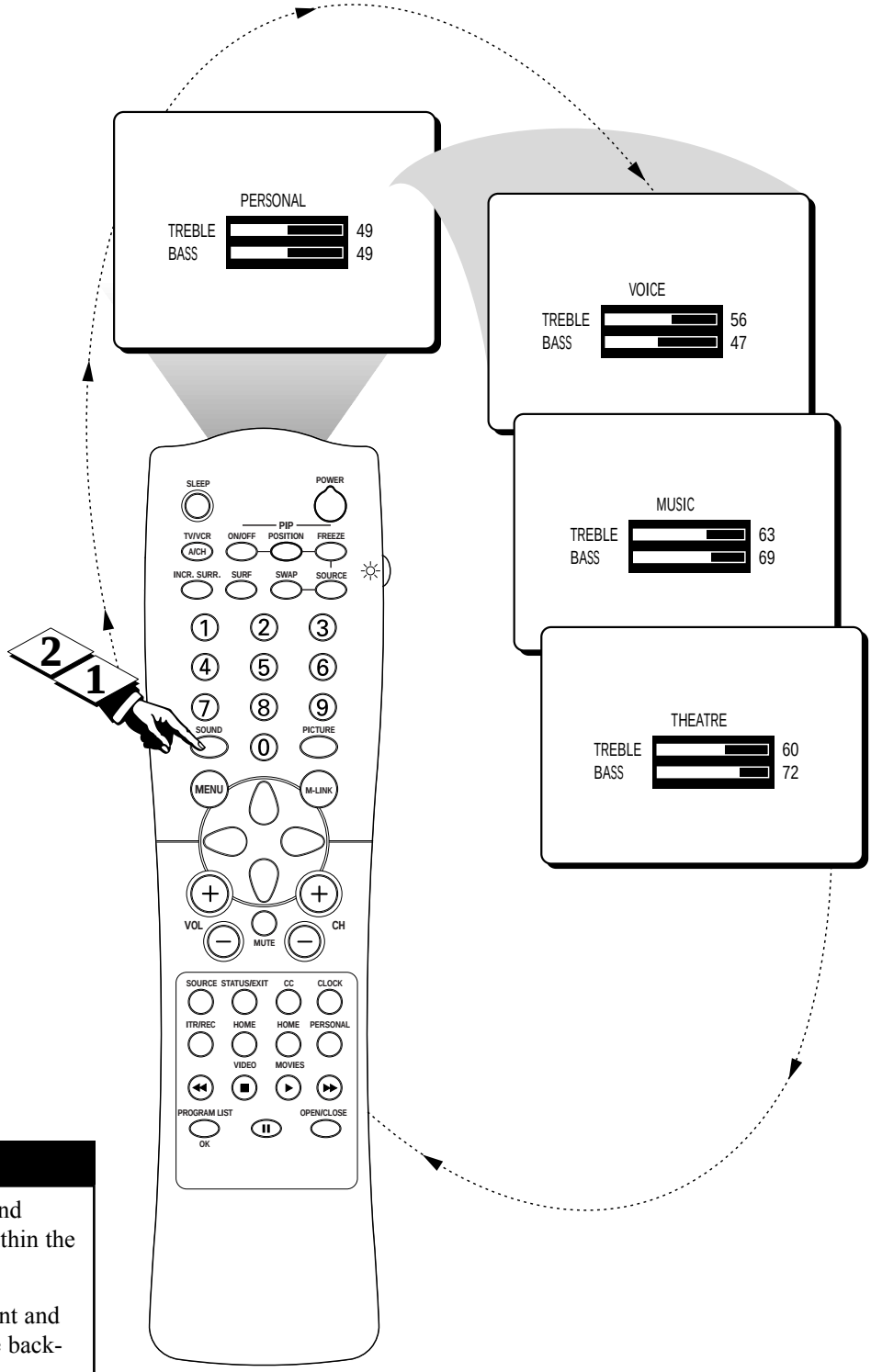
BEGIN

1 **Press the SOUND button** on the remote control. The current AutoSound™ setting will appear in the middle of the screen.

2 **Press the SOUND button repeatedly** to toggle among the four settings: PERSONAL, VOICE, MUSIC, or THEATRE.

Remember, only the PERSONAL control can be changed by the viewer. This changes the settings in the main onscreen menu's SOUND controls.

STOP



SMART HELP

Remember, AutoSound™ works only with the programs coming through the ANTENNA/CABLE (ANT A or B) input on the rear of the TV (RF audio). It will not control the sound levels for the external connections.

AutoSound™ Options

PERSONAL – presents the TV's sound according to the settings you make within the sound menu.

VOICE – brings voices to the forefront and emphasizes them. Moves music to the background.

MUSIC – emphasizes music over voices.

THEATRE – provides a balance between voices and music.

REMOTE CONTROL – USING CHANNEL SURF

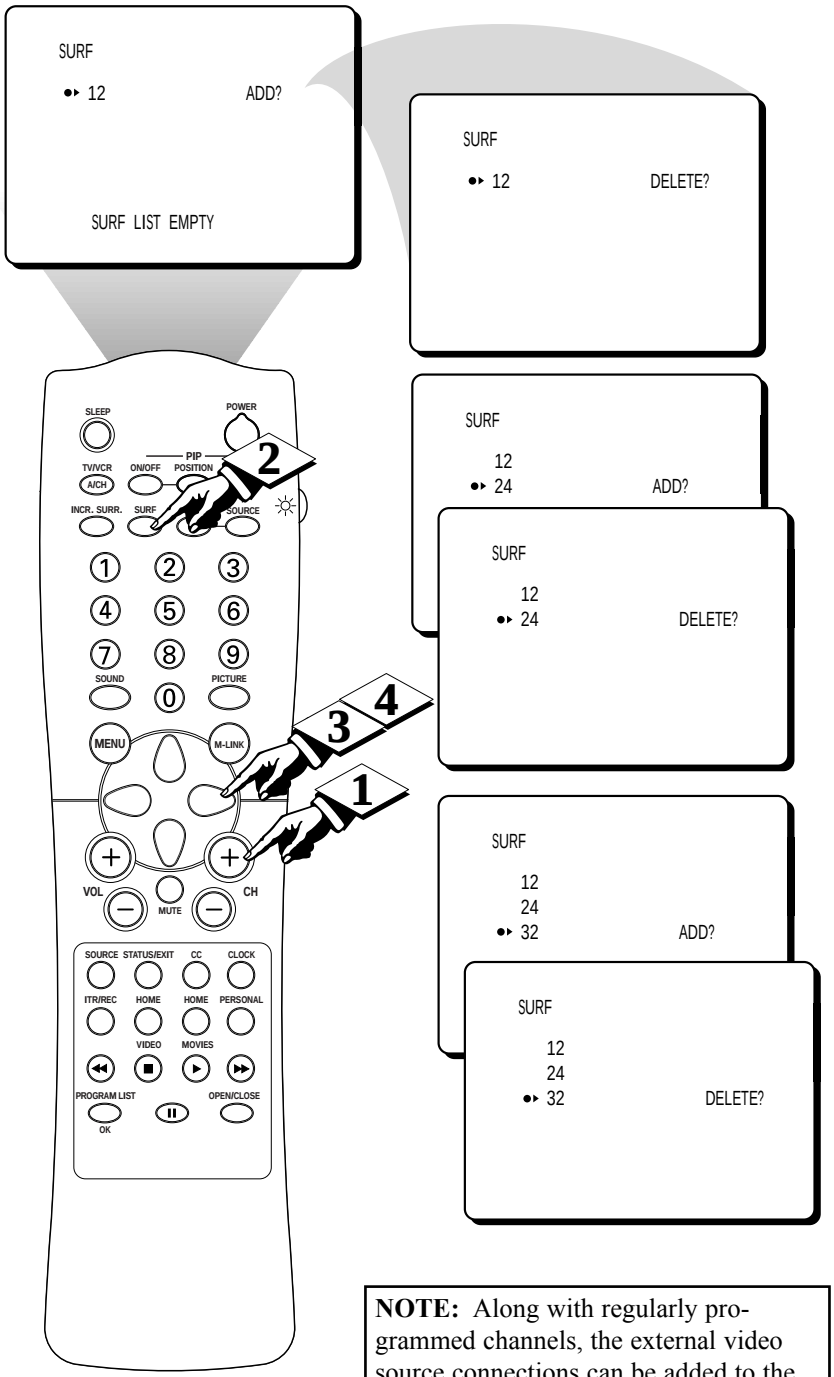
A list or series of previously viewed channels can be selected with the SURF button on your remote control. With this feature, you can easily switch between different TV channels that currently interest you. The SURF control allows you to set up to ten channels in its quick viewing list.

BEGIN

1. **Press the CHANNEL(+) or (–) button** (or the numbered buttons) to select a channel to add to the SURF list.
2. **Press the SURF button** on the remote control. The onscreen display may read, "SURF LIST EMPTY." The number of the current channel will be shown with "ADD?" to the right.
3. While the SURF list message or the SURF channel list appears on the screen, **press the CURSOR RIGHT button** to add the present channel to the SURF list.
4. If you want to delete the present channel from the SURF list, **press the CURSOR RIGHT button** again.

Repeat steps 1 through 3 to add more channels (up to 10) to the SURF list.

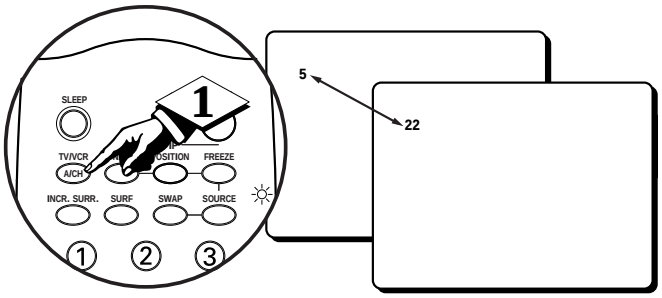
STOP



A/CH BUTTON

Your remote also has an A/CH (Alternate Channel) button. Pressing this button will toggle between the current and one previous channel.

NOTE: Along with regularly programmed channels, the external video source connections can be added to the SURF list. This means that the AV1, AV2, and AV3 channels can be added to your SURF list. Just tune to their channel and use the same procedure described on this page.



PIP – Basic Connections

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time (one main screen and and one, small, picture, or PIP).

Please note that a VCR or other accessory device is required to supply the PIP signal.

The following steps describe the basic hookups that are necessary to use PIP.

BEGIN

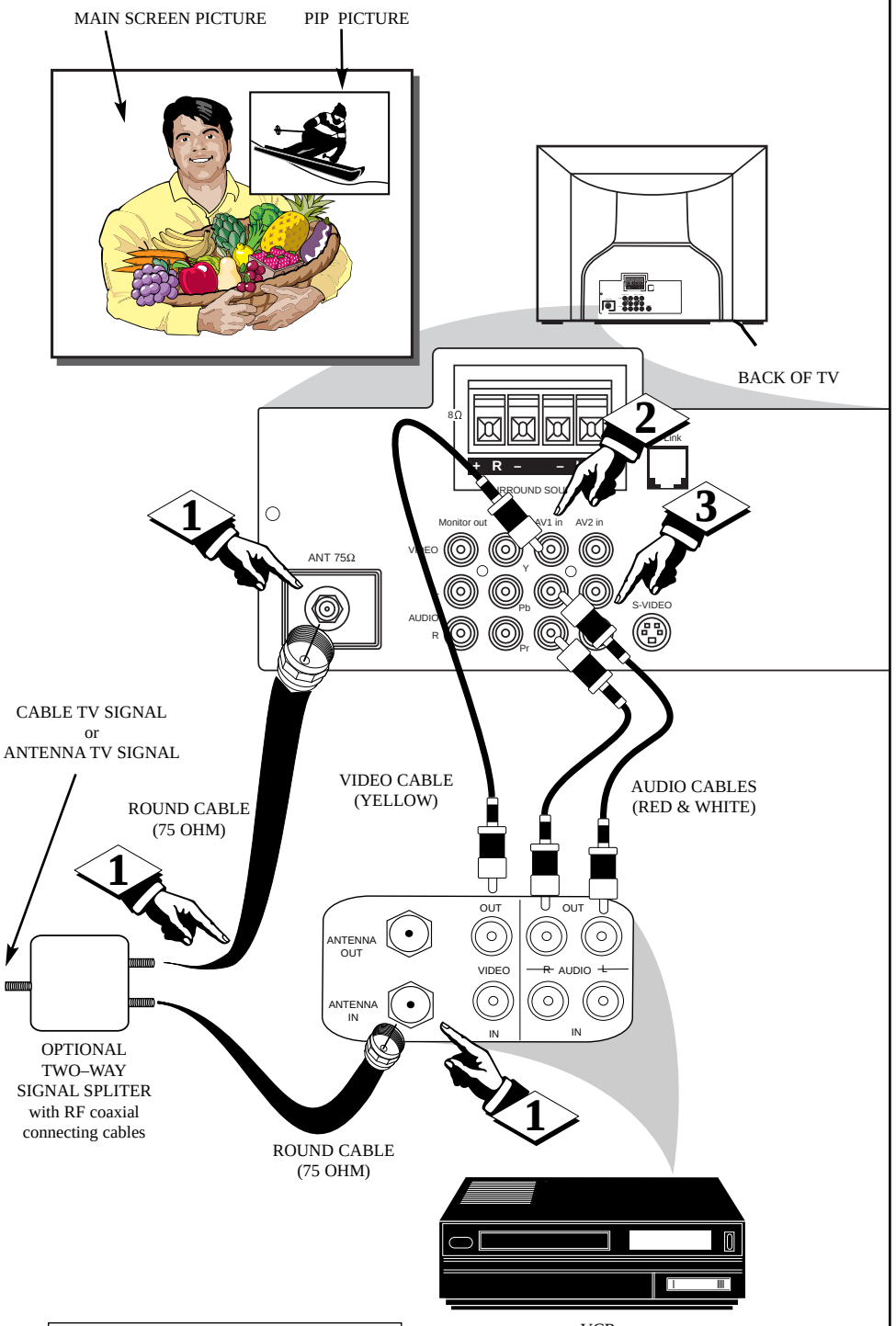
1. **First, use an optional signal splitter and** connect the original cable or antenna TV signal to both the CABLE/ANT IN on the VCR and the ANT 75Ω (ohm) input jack on the back of the television.

2. **Connect the VIDEO OUT jack** on the VCR to the VIDEO (yellow) AV1 in(put) jack on the TV.

3. **Connect the AUDIO OUT (right and left) jack**s from the VCR to the AUDIO (red and white) AV1 in(put) (right and left) jacks on the television.

NOTE: In order to get a picture in the PIP window, you must select a source by pressing the PIP SOURCE button on your remote control and toggling among the sources (see page 43, "Selecting the Signal Source"). To view the signal supplied by your VCR (or another accessory device, such as a DVD), be sure that you select the external AV source to which you have connected the device

STOP



NOTE: Other signal sources (such as a satellite dish system, an additional external antenna, an additional VCR, or a video game) also can be connected and displayed on the TV's PIP screen window.

Smart Help

For other possible PIP connections see the "More Connections" section on pages 46-47.

If you need any accessories or parts to complete the described PIP connections, contact your dealer, or call our Parts Information Center at:

1-800-851-8885

PIP – SELECTING THE SIGNAL SOURCE

The picture for the PIP window can come through either the ANT/CABLE or any of the external audio/video connections on the back of the TV. PIP SOURCE simply tells the TV which one of these sources it is to show in the PIP window.

BEGIN

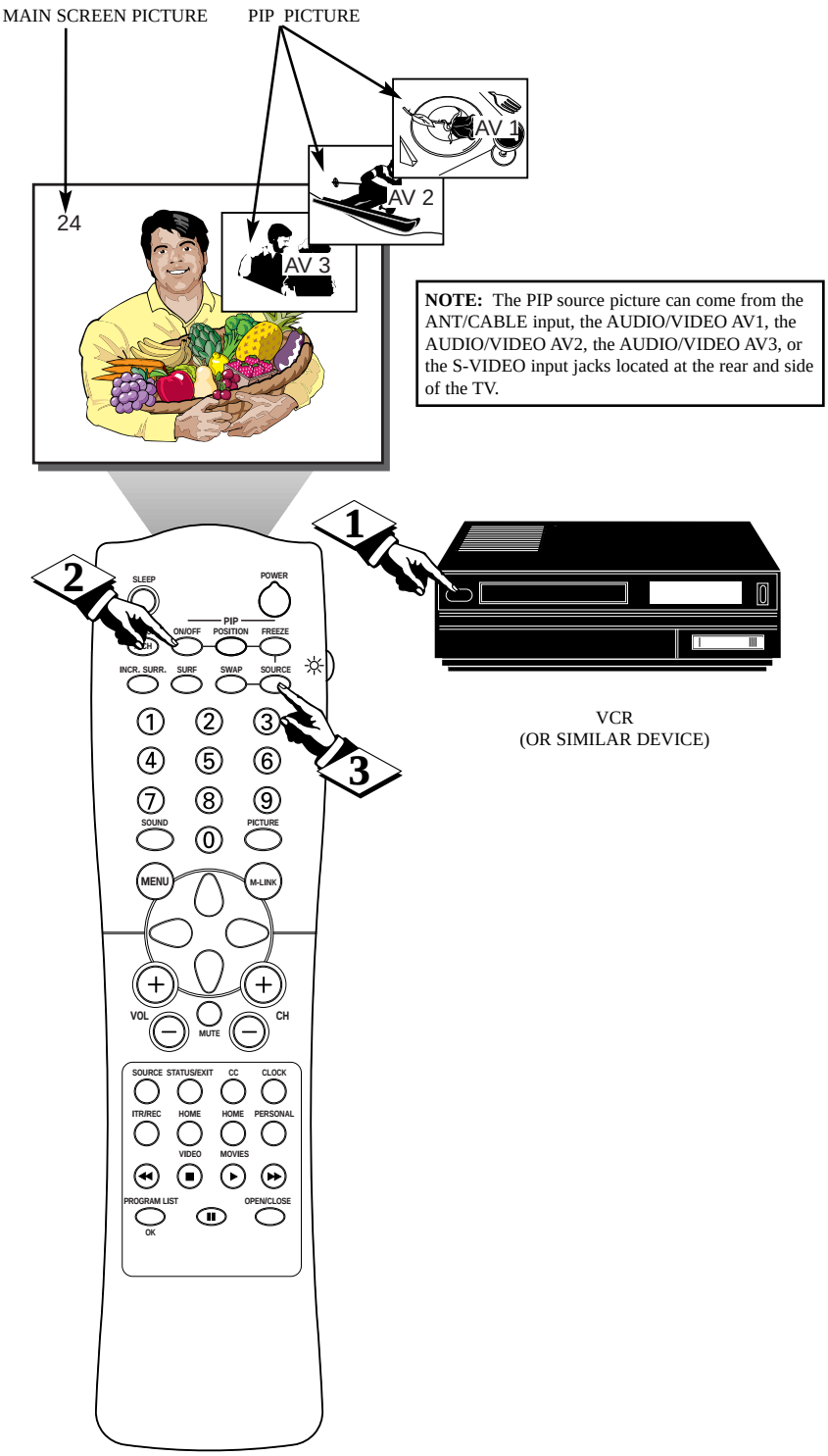
1. **Turn the TV and VCR** (or other device hooked to the external A/V connections) ON**.**
2. **Press the PIP button** on the remote control. The PIP window should appear in the upper right-hand portion of the screen.
3. **Press the SOURCE button** on the remote control to toggle among the different external connections.

The PIP SOURCE may come from the following:

AV1, AV2, AV3, S-VIDEO – for picture signal coming from the external audio/video jacks on the TV. (You must have an external device hooked up at one of these locations in order for PIP to work.)

ANTENNA/CABLE – for a picture signal coming from the ANT/CABLE input on the back of the TV.

STOP



NOTE: The PIP source picture can come from the ANT/CABLE input, the AUDIO/VIDEO AV1, the AUDIO/VIDEO AV2, the AUDIO/VIDEO AV3, or the S-VIDEO input jacks located at the rear and side of the TV.

VCR
(OR SIMILAR DEVICE)

PIP – Remote Control Buttons

By using the PIP buttons on the remote control, you can change the size of the PIP window and move and swap the PIP picture with the main screen. The PIP picture also can be frozen within the PIP window.

BEGIN

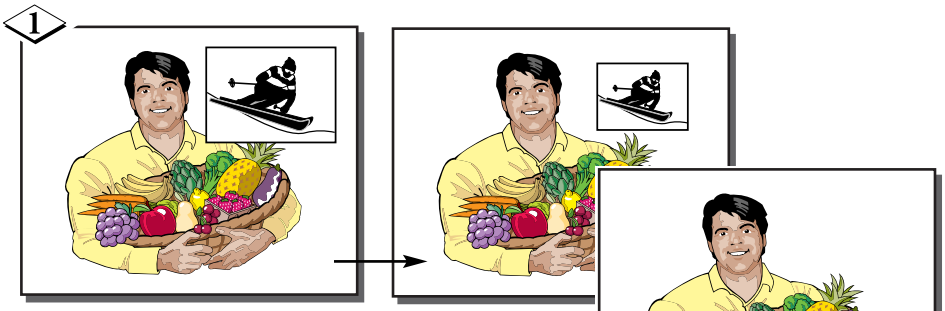
1. **Press the PIP ON/OFF button** to show the PIP window. PIP appears in one of the four corners of the screen. Press the PIP ON/OFF button again to reduce the window size. Press the PIP ON/OFF button a third time to remove the PIP window from the main screen.

2. **Press the POSITION button** on the remote control to move the PIP picture to any of the four corners.

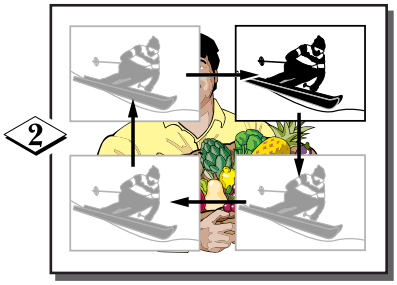
3. **Press the FREEZE button** on the remote control to stop the action within the PIP window. **Press the FREEZE button** again to resume the normal viewing action.

4. **Press the SWAP button** to swap the main screen picture with the PIP picture. Pressing the SWAP button again will return the main picture to the screen.

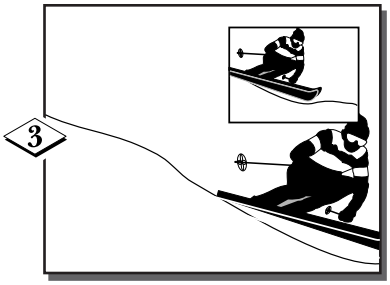
STOP



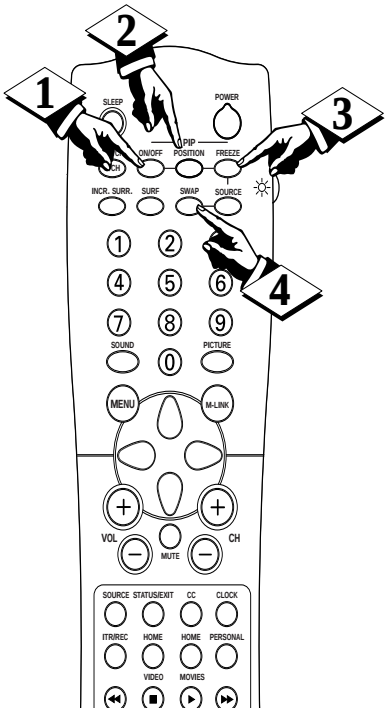
1. PIP ON/OFF

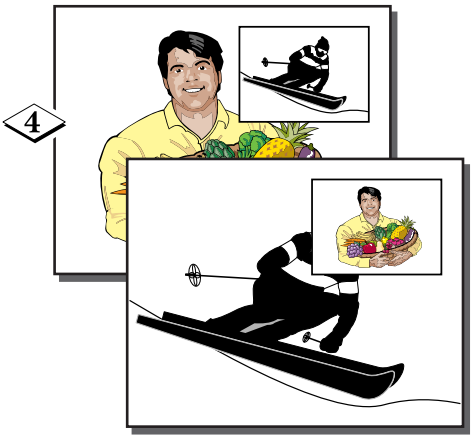


2. PIP POSITION



3. PIP FREEZE





4. PIP SWAP

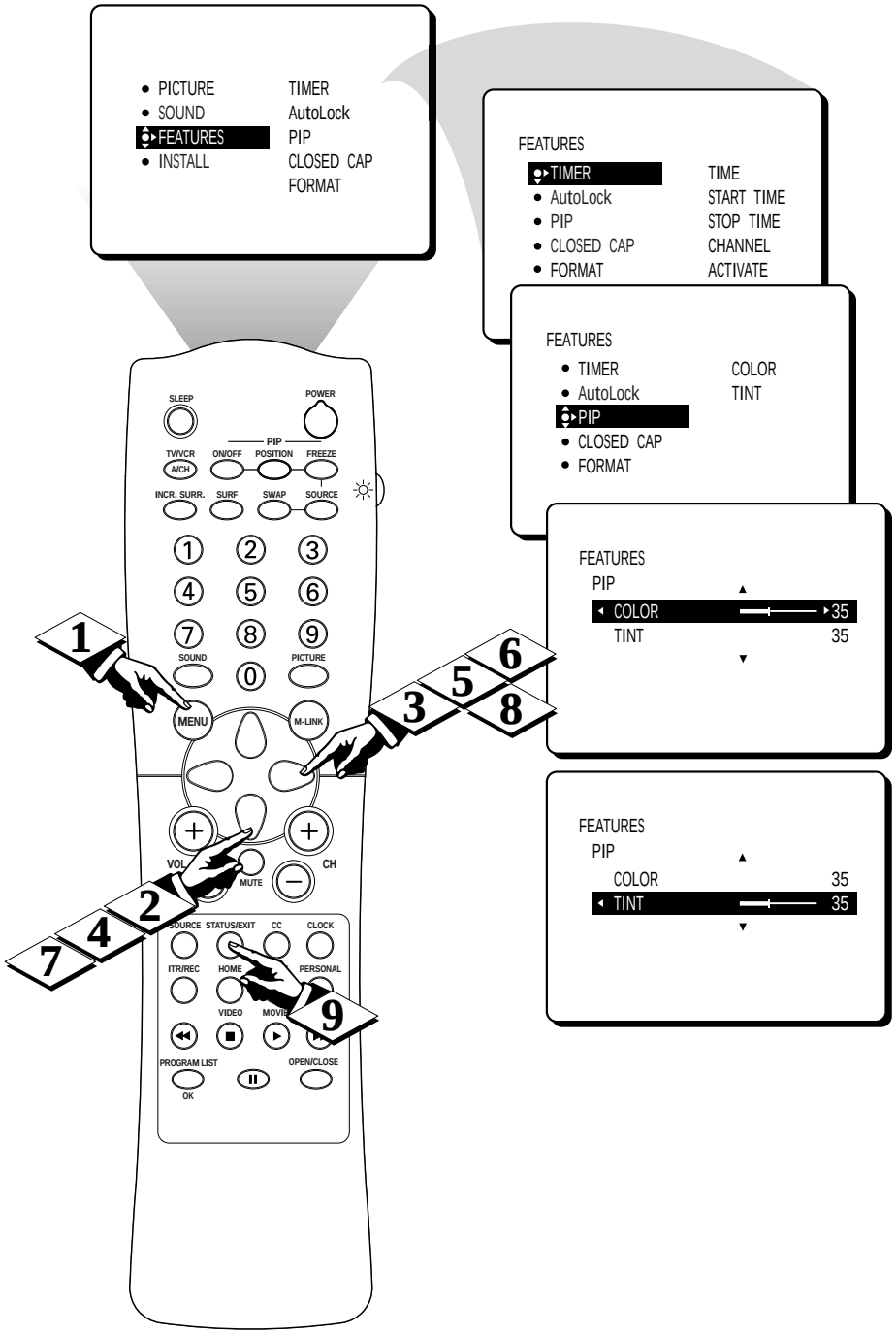
PIP – ADJUSTING THE COLOR AND TINT

The Picture-in-Picture (PIP) COLOR and TINT controls are used to make fine-tune adjustments to the picture settings for PIP (when shown on the TV screen).

BEGIN

1. **Press the MENU button** on the remote control to show the onscreen menu.
2. **Press the CURSOR DOWN button** twice to highlight **FEATURES**.
3. **Press the CURSOR RIGHT button** and the menu will shift to the left.
4. **Press the CURSOR DOWN button** twice to highlight PIP.
5. **Press the CURSOR RIGHT button** again to shift the display to the COLOR adjustment bar.
6. **Press the CURSOR RIGHT or the CURSOR LEFT button** to adjust the COLOR bar to the desired level.
7. **Press the CURSOR DOWN button** to highlight the TINT adjusmtent bar.
8. **Press the CURSOR RIGHT or the CURSOR LEFT button** to adjust the TINT bar to the desired level.
9. **Press the STATUS/EXIT button** to remove the menu from the screen.

STOP



SMART HELP

Remember, although there is a separate TINT control for PIP, the adjustment levels for this control depend on the TV's main picture. For example, if you are viewing a classic movie in black and white, PIP also will be seen in black and white (even though the PIP picture source is in color).

Cable Box and VCR Connections

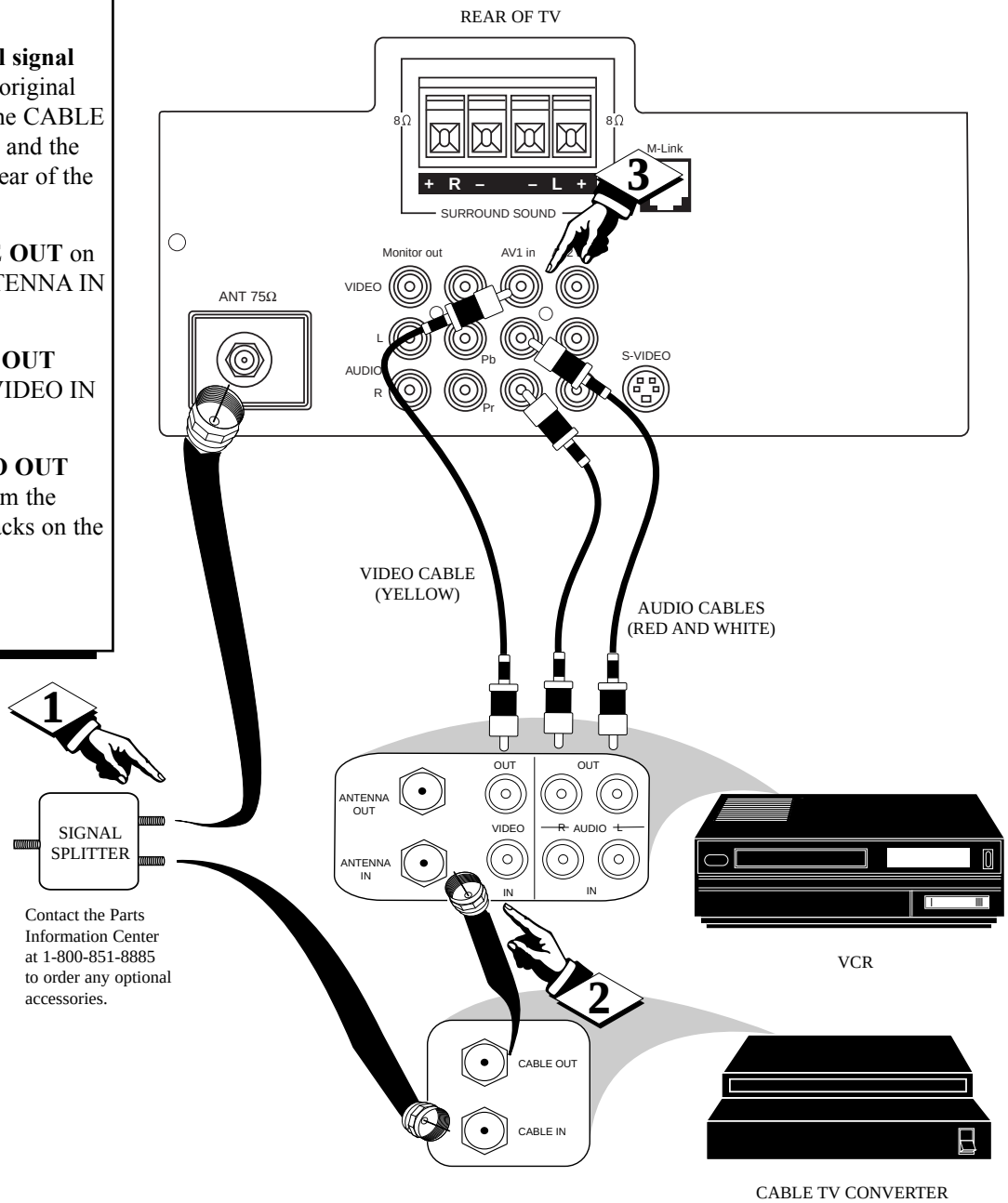
This page shows how to hook PIP up with a cable box and a VCR.

BEGIN

1. **First, use an optional signal splitter and** connect the original cable TV signal to both the CABLE IN on the cable converter and the ANTENNA plug on the rear of the television.
2. **Connect the CABLE OUT** on the Converter to the ANTENNA IN on the VCR.
3. **Connect the VIDEO OUT jack** on the VCR to the VIDEO IN jack on the TV.

Also **connect the AUDIO OUT (right and left) jacks** from the VCR to the AUDIO IN jacks on the television.

STOP



Contact the Parts Information Center at 1-800-851-8885 to order any optional accessories.

PIP – More Connections (cont'd)

VCR and DVD Connections

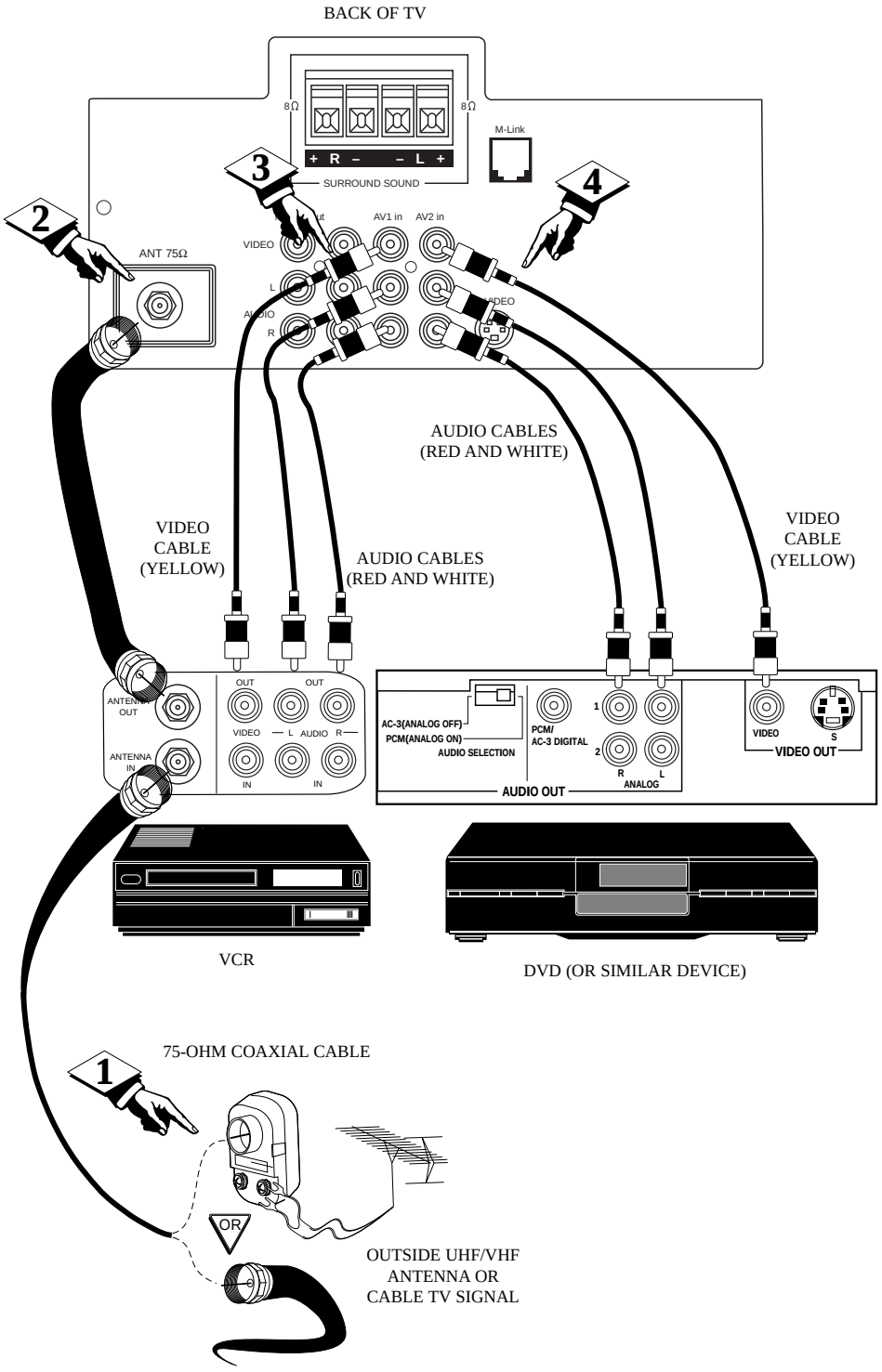
The steps for hooking up a VCR (video cassette recorder), DVD (digital video disc player), or similar device to work with PIP are shown here.

BEGIN

1. **First, connect the original cable TV signal** or antenna signal to the ANTENNA IN jack on the back of the VCR.
2. **Connect the ANTENNA OUT jack** on the rear of the VCR to the ANT(enna) jack on the back of the TV.
3. **Connect the yellow video cable** from the VIDEO OUT jack on the VCR to the AV1 in(put) VIDEO jack on the TV. Then **connect the red and white audio cables** from the AUDIO OUT jacks (L and R) on the VCR to the AV1 in(put) AUDIO jacks on the rear of the TV.
4. **Connect the yellow video cable** from the VIDEO OUT jack on the DVD or similar device to the AV2 in(put) VIDEO jack on the TV. Then **connect the red and white audio cables** from the AUDIO OUT jacks (L and R) on the DVD or similar device to the AV2 in(put) AUDIO jacks (L and R) on the back of the TV.

NOTE: Remember that when you are selecting the PIP SOURCE, the VCR will appear on the AV1 channel and the DVD or similar device will appear on the AV2 channel.

STOP



TROUBLESHOOTING

Please make these simple checks before calling for service. Because charges for TV installation and adjustment of customer controls are not covered under your warranty, these tips can save you time and money.

CAUTION: A video source (such as a video game, compact disc interactive [CDI], or TV information channel) that shows a constant nonmoving pattern on the TV screen can cause picture tube damage. When your TV is continuously used with such a source, the pattern of the nonmoving portion of the game (or other source) can leave a permanent image on the picture tube. When you're not using the video source, turn it OFF. Also, regularly alternate the use of such video sources with normal TV viewing.

No Power

- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Check that the outlet is not on a wall switch.
- Be sure the fuse is not blown on the AC power strip, if one is being used.

No Picture

- Check antenna connections. Are they properly secured to the TV's ANT 75Ω plug?
- Check the TUNER MODE control for the correct tuner setting.
- Try running the Auto Program feature to find all available channels.
- Press the AV button on the remote to make sure the correct signal source is selected (AV 1 [or CVI], AV 2, AV 3, or S-VIDEO).

No Sound

- Check the VOLUME buttons.
- Check the MUTE button on the remote control.
- Check the SPEAKER onscreen control. If it is in the OFF position, sound at the set will be eliminated.
- If you're attempting to hook up auxiliary equipment, check the audio jack connections.
- (If applicable) Check the audio receiver for the correct operating mode.

Remote Does Not Work

- Check the batteries. If necessary, replace them with AA Heavy Duty (Zinc Chloride) or Alkaline batteries.
- Clean the remote control and the remote control sensor window on the TV.
- Check the TV power cord. Unplug the TV, wait 10 seconds, then reinsert the plug into the outlet and push the POWER button again.
- Be sure the fuse is not blown on the AC power strip, if one is being used.
- Check to be sure the TV outlet is not on a wall switch.

TV Displays Wrong Channel or No Channels Above 13

- Repeat channel selection.
- Add the desired channel numbers (using the CHANNEL EDIT control) into the TV's memory.
- Check to be sure the TUNER MODES are set to the CABLE option and run the Auto Program feature to find all available channels.

Cleaning and Care

- To avoid possible shock hazard, be sure the TV is unplugged from the electrical outlet before cleaning.
- When you are cleaning the TV, take care not to scratch or damage the screen surface (avoid wearing jewelry or using anything abrasive). Wipe the front screen with a clean cloth dampened with water. Use even, easy, vertical strokes when cleaning.
- Gently wipe the cabinet surfaces with a clean cloth or sponge dampened in a solution of cool, clear water. Use a clean, dry cloth to dry the wiped surfaces.
- Never use thinners, insecticide sprays, or other chemicals on or near the cabinet, as they might cause permanent marring of the cabinet finish.

GLOSSARY OF TELEVISION TERMS

Alternate Channel • The feature that allows you to toggle between the last two channels viewed by pressing the A/CH button on the remote control.

Auto Programming • The feature that, when activated, scans for all available channels from regular antenna or cable signals and stores only active broadcast stations in the TV's memory.

Channel Edit • The feature that allows you to add or delete channels from the list of channels stored in the TV's memory. Channel Edit makes it easy to limit or expand the number of channels that are available to you when you press the Channel (+) or (–) buttons on your remote control.

Closed Captioning • The broadcast standard feature that allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, Closed Captioning uses onscreen "text boxes" to show dialogue and conversations while a TV program is in progress.

Coaxial Cable • A single, solid antenna wire normally matched with a metal plug (F type) end connector that screws (or pushes) directly onto a 75-ohm input found on the television or VCR.

Direct Audio/Video Inputs • Connectors, located on the rear of the TV, used for the input of audio and video signals. These inputs are designed for use with VCRs (or other accessories) in order to receive higher picture resolution and offer sound-connection options.

Identify • The method by which a TV remote control searches and finds an operating code for another product (such as a VCR or a cable converter). After the code has been "identified," the TV remote control can operate and send commands to the other product.

Incredible Stereo (or Surround) • False acoustic management of the audio signal that produces a dramatic expansion of the wall of sound that surrounds the listener and heightens overall viewing pleasure.

Menu • An onscreen listing of feature controls that are available for you to adjust.

Multichannel Television Sound (MTS) • The broadcast standard that allows for stereo sound to be transmitted with the TV picture.

Onscreen Displays (OSD) • The wording or messages generated by the television (or VCR) to help you with specific feature controls (color adjustment or programming, for example).

Picture-in-Picture • The showing of two pictures on the TV screen at the same time (one main screen picture and one small picture, or PIP).

Programming • The process of adding or deleting channel numbers into the television's memory circuits. Through programming, the TV "remembers" only the locally available or desired channel numbers and skips over any unwanted channel numbers.

Remote Control Sensor Window • The window or opening found on the television control panel and through which infrared remote control command signals are received.

Second Audio Program (SAP) • An additional audio channel provided for within the Multichannel Television Sound (MTS) broadcast standard. The most frequently proposed use for SAP is the simultaneous bilingual broadcast of TV material.

Status/Exit Button • The remote-control function that allows you to quickly confirm what channel number is being viewed. ***Status/Exit*** also can be used to clear the television of onscreen displays or information (rather than waiting for the displays to "time out," or automatically disappear from the screen).

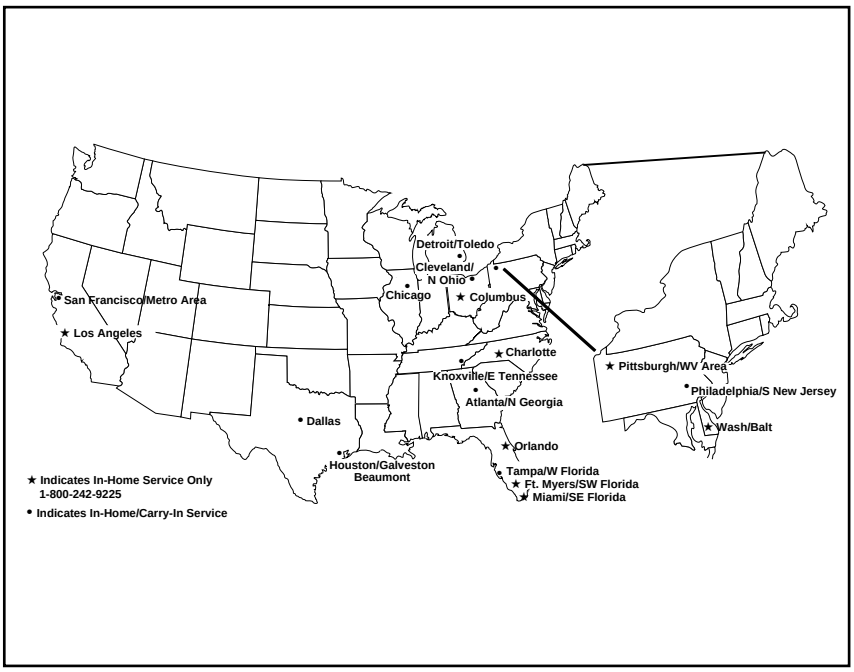
Twin-lead Wire • The more commonly used name for the two-strand, 300-ohm antenna wire used with many indoor and outdoor antenna systems. In many cases, this type of antenna wire requires an additional adapter (or balun) in order to connect to the 75-ohm input terminals designed into the more recent TVs and VCRs.

INDEX

Accessories/Optional Parts 42, 46, *Q/U-1
Alternate Channel Button (A/CH) 41
Antenna Hookup *Q/U-1
Audio Out Control 33
Audio Output Jacks 34
Audio/Video Input Jacks 36
AutoChron™ Control *Q/U-4
AutoLock™
  Access Code 19
  Blocking Channels 20
  Block No Rating Programs 25
  Block ON/OFF Control 23
  Block Unrated Programs 24
  Movie Ratings 21
  Review AutoLock™ Settings 26
  TV Ratings 22
  Understanding AutoLock™ 18
  Viewing Blocked Programming/Channels 27
AutoPicture™ Controls 41
Auto Program Channels Control *Q/U-3
AutoSound™ Controls 40
AVL (Audio Volume Leveler) Control 30
Balance Control 28
Bass Control 28
Blue Mute Control 10
Cable Box Connection *Q/U-1
Cable TV Hookup *Q/U-1
Channel Edit Control *Q/U-4
Channel Name Control *Q/U-4
Clock 12
Closed Captioning Control 8
Component Video Input Jacks 36
DVD (or similar device) Hookup 36–38, 47
Dynamic Noise Reduction (DNR) Control 7
External Speaker Connections 35
Features 5
Format (Screen) Control 9
Glossary of Television Terms 49
ImageMax™ 7
Incredible Surround 31
Language Control *Q/U-3
M-Link-specific Remote Control Buttons
(MLink, ITR/REC, Home Video, Home Movies,
Personal) *Q/U-2
Picture Adjustment Controls 6
PIP (Picture-in-Picture)
  Connections 42, 46–47
  Remote Control Buttons 44
  Source Control 43
  Tint Control 45
Registration/Welcome 2
Remote Control
  Battery Installation *Q/U-2
  Buttons *Q/U-2
S-Video Input Jacks 36–37
Safety/Precautions 3, 48
SAP (Second Audio Program) Control 32
Sleep Timer Control 11
Start Time
  Activate Control 16
  Channel Control 15
  Control 13
Stereo/Mono Control 31
Stop Time Control 14
Surf Control 41
Surround Sound (Connections) 35
Table of Contents 4
Timer Display Control 17
Troubleshooting 48
Treble Control 28
Tuner Mode Control *Q/U-3
TV Keypad (Buttons) *Q/U-2
TV Speaker Control 34
VCR Connections 36, 46–47
Volume Control 29
Warranty 52

* Refer to the *Quick Use and Installation Guide* for information.

FACTORY SERVICE LOCATIONS



NOTE: If you reside in one of our Philips Factory Service Branch areas (see directory on back), you can contact the nearest Service Branch to obtain efficient and expedient repair for your product. If your product is In-Warranty, you should have proof-of-purchase to ensure No Charge Service. For Out-of-Warranty service, call the location nearest you.

NOTA: Si vous résidez dans une des régions desservies par une succursale de service après vente du fabricant Philips (voir liste ci-dessous), vous pourrez contacter la branche de service après vente la plus près de chez vous pour obtenir un service après vente rapide et efficace. Si le produit est sous garantie, il suffira de présenter une preuve d`achat pour bénéficier d'un service sans frais. Pour les produits non couverts par la garantie, contactez le centre le plus près de chez vous.

NOTA: Si Ud. reside en una de nuestras zonas para sucursales Philips de servicio al de fábrica (ver directorio más abajo), Ud. puede comunicarse con la sucursal de servicio más cercana para obtener una reparación oportuna y eficaz de su producto. Si su producto está todavía bajo garantía, Ud. debe presentar comprobante de compra para no ocasionar ningunos cargos por servicio. Para servicio después del vencimiento de la garantía, llame al lugar más cercano de los abajo indicados.

In Canada

How you can obtain efficient and expedient carry-in, mail-in, or in-home service for your product

Please contact Philips at
1-800-661-6162 (French speaking)

1-800-363-7278 (English speaking)

Au Canada

Comment obtenir le service après-vente pour les produits apportés ou envoyés par la poste à notre centre de service ou le service à domicile

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COMMENT OBTENIR NOTRE SERVICE APRÈS VENTE RAPIDE ET EFFICACE SOIT PAR COURRIER, À DOMICILE, OU EN SE PRÉSENTANT À UN CENTRE DE SERVICE PHILIPS. PLUS DE 600 CENTRES DE RÉCEPTION DE PRODUITS À RÉPARER À TRAVERS LE PAYS: CONTACTER LE CENTRE DE SERVICE AUX CONSOMMATEURS LE PLUS PROCHE POUR SAVOIR L'EMPLACEMENT DE CES DÉPÔTS DANS UN RAYON DE 50 À 75 MILES (80 KM À 120 KM) DU CENTRE DE SERVICE LOCAL.

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Tampa, FL 33619
(813) 621-8181

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San Jose, CA 95112
(408) 436-8566

TEXAS
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Houston, TX 77055
(713) 682-3990

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MICHIGAN
Philips Factory Service of Michigan
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Madison Heights, MI 48071
(248) 544-2110

DALLAS AREA
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Itasca, IL 60143
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MAC2929 12/99

EL4482-3 Rev. BB 3135 015 07541

LIMITED WARRANTY

COLOR TELEVISION

90 Days Free Labor
One Year Free Replacement of Parts (Two Years Free Replacement on Color Picture Tube)
This product can be repaired in-home.

WHO IS COVERED?

You must have proof of purchase to receive warranty service. A sales receipt or other document showing that you purchased the product is considered proof of purchase.

WHAT IS COVERED?

Warranty coverage begins the day you buy your product. *For 90 days thereafter,* all parts will be repaired or replaced free, and labor is free. From 90 days to one year from the day of purchase, all parts will be repaired or replaced free, but you pay for all labor charges. From one to two years from the day of purchase, you pay for the replacement or repair of all parts except the picture tube, and for all labor charges. After two years from the day of purchase, you pay for the replacement or repair of all parts, and for all labor charges.

All parts, including repaired and replaced parts, are covered only for the original warranty period. When the warranty on the product expires, the warranty on all replaced and repaired parts also expires.

WHAT IS EXCLUDED?

Your warranty does not cover:

- labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna systems outside of the product.
- product repair and/or part replacement because of misuse, accident, unauthorized repair or other cause not within the control of Philips Consumer Electronics Company.
- reception problems caused by signal conditions or cable or antenna systems outside the unit.
- a product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
- incidental or consequential damages resulting from the product. (Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you. This includes, but is not limited to, prerecorded material, whether copyrighted or not copyrighted.)
- a product used for commercial or institutional purposes.

WHERE IS SERVICE AVAILABLE?

Warranty service is available in all countries where the product is officially distributed by Philips Consumer Electronics Company. In countries where Philips Consumer Electronics Company does not distribute the product, the local Philips service organization will attempt to provide service (although there may be a delay if the appropriate spare parts and technical manual(s) are not readily available).

MAKE SURE YOU KEEP...

Please keep your sales receipt or other document showing proof of purchase. Attach it to this owner's manual and keep both nearby. Also keep the original box and packing material in case you need to return your product.

BEFORE REQUESTING SERVICE...

Please check your owner's manual before requesting service. Adjustments of the controls discussed there may save you a service call.

TO GET WARRANTY SERVICE IN U.S.A., PUERTO RICO OR U.S. VIRGIN ISLANDS...

Contact a Philips factory service center (see enclosed list) or authorized service center to arrange repair.

(In U.S.A., Puerto Rico and U.S. Virgin Islands, all implied warranties, including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to the duration of this express warranty. But, because some states do not allow limitations on how long an implied warranty may last, this limitation may not apply to you.)

TO GET WARRANTY SERVICE IN CANADA...

Please contact Philips at:

1-800-661-6162 (French speaking)
1-800-363-7278 (English speaking)

(In Canada, this warranty is given in lieu of all other warranties. No other warranties are expressed or implied, including any implied warranties of merchantability or fitness for a particular purpose. Philips is not liable under any circumstances for any direct, indirect, special, incidental or consequential damages, howsoever incurred, even if notified of the possibility of such damages.)

REMEMBER...

Please record the model and serial numbers found on the product below. Also, please fill out and mail your warranty registration card promptly. It will be easier for us to notify you if necessary.

MODEL # _____

SERIAL # _____

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

Philips Consumer Electronics Company, P.O. Box 2976, Longview, Texas 75606, (903) 242-4800

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